

```

cacatgcaca aaagacttaa ctagctttac atttagcagt cagttgggta gattagggtt 600
catagtaaat gaataggaat agaaagaata ggaagtgttt ttattttcca gtagtaattc 660
cgtggattcc atttgaccca gtttactatc agttcagttc aggtagattt ggttcaactt 720
ttgggtgggtt ttggctctag gatattcctg actttaatat cctagaactt actgagtctt 780
cccttcaata aatacacttc tcacatacct ctaatcctat gcttccttga aacaataatg 840
ctagctgagt tgtttactaa ggattattat aagggcctga aggtgtggga gtggagatta 900
attaaaacct ttatgttctc caatataagg gaaaagcagg ttggtactac ttctgattag 960
gcagaaaaca ccaggattcc ttaagtgatc cttgaaatgg ttattgtttt ctgccttgtc 1020
acatttgcca ctgtgccctt taaaacgatg tggaaacctc aggtttgtgg acagcacagg 1080
tggaatgaca tcttgtgctt cctgaggctc ccctctacca ggcacattag cttagtgtct 1140
cagatgtcag cccaagtcct tgttacctcc ttttcctgct gccagggaa gagtgtgtgt 1200
gctggagctg gagcgcttgc actcttcagg tgactattct cacctccatt tcctccacat 1260
gcattaggtg aaactgaggt ctaagcctcc tgcaaggctc acattttaag gactcacaca 1320
tcaggctctc agaaatgtac acagggtatta gttctgtttg ttctaaagga aatgtgggta 1380
tctctcaggc caggacttag tgactagttt tcgctagaca gcaggttaat acctagatct 1440
catttaaaaa aaaaaaaaaa aaaacaggat taaagggaac tgatcaggtt tgttgagttt 1500
tttagcctaa ttccaaagca tggaagagtg ctctaggtag gaaagaaagc ttttcttac 1560
gatttgtagc tacctactgt gcctgacttg gtgcctgtgt gaggattaag cccttagtct 1620
gctcttgcaa ttattcaaat gacaaattaa atttgctttt gtaataacaa taaaagttgt 1680
catcttcctt ttgaaaaaa aaaaaaaaaa aaaaaag 1717

```

<210> 464

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<400> 464

```

ggcacgagag atggcggcgc aacagcggga ctgcgggggt gctgcgcagc tggcggggcc 60
ggcggcggag gctgaccccc taggacgctt cacgtgtccc gtgtgcttag aggtgtacga 120
gaagccggta caggtgccct gcggacacgt cttttgctct gcatgcctgc aggaatgtct 180
gaagccgaag aagcctgtct gtggggtgtg tcgcagcgct ctggcacctg gcgtccgagc 240
cgtggagctc gagcggcaga tcgagagcac agagacttct tgccatggct gccgtaagaa 300
tttcttcttg tccaagatcc ggtcccacgt ggctacttgt tccaaatacc agaattacat 360
catggaaggt gtgaaggcca ccattaagga tgcattctct cagccaagga atgttccaaa 420
ccgttacacc tttccttgct cttactgtcc tgagaagaac tttgatcagg aaggacttgt 480
ggaacactgc aaattattcc atagcacgga taccaaactc gtgggttgct cgatatgtgc 540

```

393

ctcgatgccc tggggagacc ccaactaccg cagcgccaac ttcagagagc acatccagcg 600
ccggcaccgg ttttcttatg acacttttgt ggattatgat gttgatgaag aggacatgat 660
gaatcaggtg ttgcagcget ccatcatcga ccagtgaagc gagtccgtgc ttgctatctg 720
tctcatgtta cagagcttcc attacatatt aaacgtgaaa tctatgaaaa aaaaaaaggg 780
gggggggnccc gggtacccca atttcggccc tattaggtna agtcgtna 828

<210> 465

<211> 1173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1171)

<223> n equals a,t,g, or c

<400> 465

cctgtcctgc tgtctctgct gctgcttctg ggtcctgctg tccccagga gaaccaagat 60
ggtcgttact ctctgacctt tatctacact gggctgtcca agcatgttga agacgtcccc 120
gcgtttcagg cccttgntca ctcaatgacc tccagttctt tagatacaac agtaaagaca 180
ggaagtctca gcccatggga ctctggagac aggtggaagg aatggaggat tggaagcagg 240
acagccaact tcagaaggcc agggaggaca tctttatgga gaccctgaaa gacatygtgg 300
agtattacaa cgacagtaac ggggtctcacg tattgcaggg aaggtttggg tgtgagatcg 360
agaataacag aagcagcggg cattctggaa atattactat gatggaaagg actacattga 420
attcaacaaa gaaatcccag cctgggtccc ctctgaccca gcagcccaga taaccaagca 480
gaagtgggag gcagaaccag tctacgtgca gcggggccaag gcttacctgg aggaggagtg 540
ccctgcgact ctgcggaaat acctgaaata cagcaaaaat atcctggacc ggcaagatcc 600
tccctctgtg gtggtcacca gccaccaggc cccaggagaa aagaagaaac tgaagtgcct 660
ggcctacgac ttctaccagc ggaaaattga tgtgcactgg actcgggccg gcgaggtgca 720
ggagcctgag ttacggggag atgttcttca caatggaaat ggcacttacc agtcctgggt 780
ggtggtggca gtgccccgc aggcacagc cccctactcc tgccacgtgc agcacagcag 840
cctggcccag cccctcgtgg tgccctggga ggccagctag gaagcaaggg ttggaggcaa 900
tgtgggatct cagaccagc agctgccctt cctgcctgat gtgggagctg aaccacagaa 960
atcacagtca atggatccac aaggcctgag gagcagtggt gggggacaga caggagggtg 1020
atttgagagc cgaagactgg gatgcctgtc ttgagtagac ttggacccaa aaaatcatct 1080
caccttgagc ccacccccac ccattgtct aatctgtaga agctaataaa taatcatccc 1140

tccttgcccta gcaaaaaaaaa aaaaangngg ngg

1173

<210> 466

<211> 521

<212> DNA

<213> Homo sapiens

<400> 466

taccagggtc	cggaatccca	gggtcgaccc	acgcgtccgc	cggaagatg	gcagaagtag	60
agcagaagaa	gaagcggacc	ttccgcaagt	tcacctaccg	cggcgtggac	ctcgaccagc	120
tgctggacat	gtcctacgag	cagctgatgc	agctgtacag	tgcgcgccag	gcggcggctg	180
aaccggggcc	tgcgcgga	gcagcactcc	ctgctgaagc	gcctgcgcaa	ggccaagaag	240
gaggcgccgc	ccatggagaa	gccggaagtg	gtgaagacgc	acctgcggga	catgatcatc	300
ctacccgaga	tggtgggcag	catggtgggc	gtytacaacg	gcaagacctt	caaccagggtg	360
gagatcaagc	ccgagatgat	cggccactac	ctgggcgagt	tctccatcac	ctacaagccc	420
gtaaagcatk	gccggcccgc	catcggggcc	acccactsct	cccgmttcat	ccctctcaag	480
taatggctca	gytaataaag	gcgsacatga	ctccaaaaaa	a		521

<210> 467

<211> 1428

<212> DNA

<213> Homo sapiens

<400> 467

geccgtctcc	ccgcaggagc	ggcccccgcc	ttacctggca	gtcccaggac	atggcgagga	60
gtacccgggtg	gctggggcac	acagcagccc	cccaaaggcc	cgcttcctgc	gggttcccag	120
tgagcaccct	tacctgaccc	catcccccca	atcccctgag	cactgggcca	gcccctcacc	180
tccctccctc	tcagactggt	ccgaatccac	gcctagccca	gccactgcca	ctggggccat	240
ggccaccacc	actggggcac	tgcccgccca	gccacttccc	ttgtctgttc	ccagctccct	300
tgctcaggcc	cagaccacgc	tggggccccca	gccggaagtt	accccccaaga	ggcaagtgtt	360
ggcctgagac	gctcgtcagt	tcttagatct	tgggggccta	aagagacccc	cgctctgcct	420
cctttctttc	tctgtctctt	ccttcccttt	agtctttttc	atcctcttct	ctttccacca	480
accctcctgc	atccttgcc	tgacgcgtga	ccgagatagg	tcacacagcc	agggcttcag	540
tcttccctta	tttataatgg	gtgggggcta	ccaccacccc	tgctcagctc	tgtgaagagt	600
ctgggacctc	cttcttcccc	acttctctct	tccctcattc	ctttctctct	ccttctggcc	660
tctcatttcc	ttacactctg	acatgaatga	attattatta	ttttctttt	tctttttttt	720
tttacatttt	gtatagaaac	aaattcattt	aaacaaactt	attattatta	ttttttacaa	780
aatatatata	tggagatgct	ccctccccct	gtgaaccccc	cagtgcctcc	gtgggctgag	840
tctgtggggc	cattcggcca	agctggattc	tgtgtacctc	gtacacaggc	atgactggga	900
tcccggtgac	cgagtacacg	acccagggtat	gtaccaagta	ggcacccttg	ggcgcaccca	960
ctggggccag	gggtcggggg	agtgttgagg	gcctcctccc	caccccacct	ccctcacttc	1020
actgcattcc	agattggaca	tggtccatag	ccttgctggg	gaagggccca	ctgccaactc	1080
cctctgcccc	agccccaccc	ttggccatct	ccctttggga	actagggggc	tgctggtggg	1140
aaatggggagc	cagggcgagat	gtatgcattc	ctttatgtcc	ctgtaaagt	gggactacaa	1200
gaagaggagc	tgctgagtg	gtactttctc	ttcctggtaa	tcctctggcc	cagccttatg	1260
gcagaataga	ggtattttta	ggctattttt	gtaatatggc	ttctggtcaa	aatccctgtg	1320
tagctgaatt	cccaagccct	gcattgtaca	gccccccact	cccctcacca	cctaataaag	1380
gaatagttaa	cactcaaaaa	aaaaaaaaaa	aaaaaacttg	agggggggg		1428

<210> 468

<211> 3463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1187)

<223> n equals a,t,g, or c

<400> 468

```
cagtgtccgg gccgagccgg tgcgccgcag actagggcgc ctccggccag ggagcgcgga 60
ggagccatgg ccaccgctaa cggggccgtg gaaaacgggc agccggacag gaagccgccg 120
gccctgccgc gcccaccccg caacctggag gtcaagttca ccaagatatt tatcaacaat 180
gaatggcacg aatccaagag tgggaaaaag tttgctacat gtaacccttc aactcgggag 240
caaatatgtg aagtgggaaga aggagataag cccgacgtgg acaaggctgt ggargctgca 300
caggttgccct tccagagggg ctgccatgg cgccggctgg atgccctgag tcgtgggagg 360
ctgtgcacc agctggctga cctggtkgar agggaccgcg ccaccttggc cgccctggag 420
acgatggata cagggaagcc atttcttcat gcttttttca tcgacctgga gggctgtatt 480
agaaccctca gatactttgc aggggtgggca gacaaaatcc agggcaagac catccccaca 540
gatgacaacg tgtgtgcttc accaggcatg agcccattgg tgtctgtggg gccatcactc 600
catggaactt cccctgctg atgctgggtg ggaagctggc acccgccctc tgctgtggga 660
acaccatggg cctgaagcct gcggagacac ctctcaccgc cctttatctc ggctctctga 720
tcaaagaggc cgggttccct ccaggagtgg tgaacattgt gccaggattc gggcccacag 780
tgggagcagc aatttcttct caccctcaga tcaacaagat cgccttcacc ggctccacag 840
aggttggaag actggttaaa gaagctgctt cccggagcaa tctgaagcgg gtgacgctgg 900
agctgggggg gaagaacccc tgcctcgtgt gtgcggacgc tgacttggac ttggcagtgg 960
agtgtgccc aagggagtg ttcttcaacc aaggccagtg ttgcacggca gcctccaggg 1020
tgctcgtgga ggagcaggtc tactctgagt ttgtcaggcg gacgtggagt atgccaagaa 1080
acggcccggt ggagacccct tcgatgtcaa aacagaacag gggcctcaga ttgatcaaaa 1140
gcagttcgac aaaatcttag agctgatcga gagtgggaag aaggaanggg ccaagctgga 1200
atgcgggggc tyagccatgg aagacaaggg gctcttcac aaaccactg tcttctcaga 1260
agtcacagac aacatgcgga ttgccaaaga ggagatttcc gggccagtgc accaatactg 1320
aagttcaaaa gtatcgaaga agtgataaaa agagcgaata gcaccgacta tggactcaca 1380
gcagccgtgt tcacaaaaaa tctcgacaaa gccctgaagt tggcttctgc cttagagtct 1440
ggaacggtct ggaatcaact ctacaacgcc ctctatgcac aggtccatt ttgggtgctt 1500
aaaatgtcag gaaatggcag agaactaggt gaatacgctt tggccgaata cacagaagt 1560
aaaactgtca ccatcaaact tggcgacaag aaccctgaa ggaaaggcgg ggctccttcc 1620
tcaaacatcg gacggcggaa tgtggcagat gaaatgtgct ggaggaaaaa aatgacattt 1680
ctgaccttcc cgggacacat tcttctggag gctttacatc tactggagtt gaatgattgc 1740
tgttttctc tactctctct gtttattcac cagactgggg atgcctatag gttgtctgtg 1800
aaatcgcagt cctgcctggg gagggagctg ttggccattt ctgtgtttcc ctttaaacca 1860
gatcctggag acagtgagat actcagggcg ttgttaacag ggagtgggtat ttgaagtgtc 1920
cagcagttgc ttgaaatgct ttgccgaatc tgactccagt aagaatgtgg gaaaaccccc 1980
tgtgtgttct gcaagcaggg ctcttgacc agcgggtctc tcagggtgga cctgcttaca 2040
gagcaagcca cgctcttttc cgagggtgaa gtgggaccat tccttgggaa aggattcaca 2100
gtaagggttt ttgggttttg tttttgttt tcttggtttt aaaaaaggga tttcacagt 2160
agaaagtttt ggtagtgca taccgtggaa gggcgccagg gtctttgtgg attgcatgtt 2220
gacattgacc gtgagattcg gcttcaaacc aatactgcct ttggaatatg acagaatcaa 2280
tagcccagag agcttagtca aagacgatat cacgggtctc cttaaccaag gcactttctt 2340
aagcagaaaa tattgttgag gttacctttg ctgctaaaga tccaatcttc taacgccaca 2400
acagcatagc aaatcctagg ataattcacc tcctcatttg acaaatcaga gctgtaattc 2460
rctttaacaa attacgcatt tctatcacgt tcactaacag cttatgataa gtctgtgtag 2520
```

```
tcttcctttt ctccagttct gttacccaat ttagattagt aaagcgtaca caactggaaa 2580
gactgctgta ataacacagc cttgttattt ttaagtccta ttttgatatt aatttctgat 2640
tagttagtaa ataacacctg gattctatgg aggacctcgg tcttcatcca agtggcctga 2700
gtatttcact ggcagggttg gaatttttct tttcctcttt ggggatccaa atgatgatgt 2760
gcaatttcat gttttaactt gggaaactga aagtgttccc atatagcttc aaaaacaaaa 2820
acaaatgtgt tatccgacgg atacttttat gggtactaac tagtactttc ctaattggga 2880
aagtagtgct taagtttgca aattaagttg gggagggcaa taataaaatg agggcccgtg 2940
acagaaccag tgtgtgtata acgaaaacca tgtataaaat gggcctatca cccttgctcag 3000
agatataaat taccacattt gccttccctt catcagctaa cacttatcac ttatactacc 3060
aataacttgt taaatcagga tttggcttca tacctgaat tttcagtatt ttatctcaag 3120
tagatataga cactaacctt gatagtata cgtagaggg ttcctattct tccattgtac 3180
gataatgtct ttaatatgaa atgctacatt atttataatt ggtagagtta ttgtatcttt 3240
ttatagttgt aagtacacag aggtggtata tttaaacttc tgtaatatat tgtatttaga 3300
aatggaaata tatatagtgt taggtttcac tttttttaag gtttaccctt gtggtgtggt 3360
ttaaaaatct ataggcctgg gaattccgat cctagctgca gatcgcatcc cacaatgcga 3420
gaatgataaa ataaaattgg atatttgaga aaaaaaaaaa aaa 3463
```

<210> 469

<211> 621

<212> DNA

<213> Homo sapiens

<400> 469

```
atggagaagg tccaggacac gtgggtgggg gaagctgagc gctgagacca agggctaaag 60
ctgggagact gaaaaaatgc agaccgccgg ggcattattc atttctccag ctctgatccg 120
ctgttgatcc aggggtctaa tcaggcctgt gtctgcctcc ttcttgaata gccagtgaa 180
ttcatctaaa cagccttcct acagcaactt cccactccag gtggccagac gggagtcca 240
gaccagtgtt gtctcccggg acattgacac agcagccaag tttattggtg ctggggcagc 300
cacagttggt gtggctggtt caggggctgg cattggaacc gtggttgga gcttgatcat 360
tggtatgcc aggaaccctg ctctcaagca gcagctcttc tcctatgcca ttcttggtt 420
tgccctgtct gaggccatgg ggcttttctg tttgatggtc gccttcctca tcctcttcgc 480
catgtgaggc tccatggggg gtcaccggcc tggtgctact gcaactccac accattcttg 540
gtgctggggt gtgttaagct ttaccattaa acacaacggt tctctaaaaa aaaaaaaaaa 600
aaaaaaaaa aaaaaaaaaa a 621
```

<210> 470

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1798)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1812)
<223> n equals a,t,g, or c

<400> 470

```
tacgaccgac gagccggtgt cgtggtcgcg gtacctgttc caacacggct cgcgggcccc 60
tgccggctcc ggtccccggc gcggctgtcc gagccctgc ggcgggcgga cgatgggtgtg 120
gcggancacg cagacgcggg cggcmgcggc ggcgggcatg aaggaggatg gaagggcagg 180
acgaggtgtc ggcgcgggag cagcacttcc acagccaagt ggcgggagtcc acgatatgtt 240
tccttctttt tgccattctc tacgttggtt cctacttcat catcacaaga tacaagagaa 300
aatcagatga acaagaagat gaagatgcc aatgcacacg gatttcgttg tttttgagca 360
cgttcactct cgcagtgtca gctggngctg ttttgctttt acccttctca atcatcagca 420
atgaaatcct gctttctttt cctcagaact actatattca gtggctaaat ggctccctga 480
ttcatgggtt gtggaatctt gcttcccttt tttccaaact ttgnttattt gtattgatgc 540
cctttgcctt tttctttctg gaatcagaag gctttgctgg cctgaaaaag ggaatccgag 600
cccgcatttt agagactttg gtcattgttc ttcttcttgc gttactcatt cttgggtag 660
tgtgggtagc ttcagcactc attgacaacg atgccgcaag catggaatct ttatatgatc 720
tctgggagtt ctatctaccc tatttatatt cctgtatata attgatggga tgtttgttac 780
ttctcttggt tacaccagtt ggcctttctc gtatgttcac agtcatgggt cagttgctag 840
tgaagccaac aattcttgaa gacctggatg aacaaattta tatcattacc ttagaggaag 900
aagcactcca gagacgacta aatgggctgt cttcatcggt ggaatacaac ataattggag 960
tggaacaaga acttgaaaat gtaaagactc ttaagacaaa attagatcct tggagtctt 1020
tttctgtgct tcagtctcct gtctggcact ttgctgcaca gactccagct gacatagtct 1080
ccccagattc ccatttcatg ctctcaactc aagggatgag ctgggctcag cttgtgttcc 1140
tccttcctgc atcacggcct ggaaactctc aagacaagag gcgaaaaaag gcttcagcat 1200
gggaaagaaa tttggtgtat cccgctgtta tgggtctcct tcttattgag acatccatct 1260
cggtcctctt ggtggcttgt aatattcttt gcctattggt tgatgaaaca gcaatgcca 1320
aaggaacaag ggggscgtga ataggaaatg cctctctttc tacgtttggt tttgtgggag 1380
ctgcgcttga aatcattttg attttctatc ttatgggtgtc ctctgttgtc ggcttctata 1440
gccttcgatt ttttggaac tttactccca agaaagatga cacaactatg acaaagatca 1500
ttggaattg tgtgtccatc ttggttttga gctctgctck gcctgtgatg tcgagaacac 1560
tggggcttca taaacttcac ttaccaataa cttcaaggga ttcagaaaca gccaaagcct 1620
ctgtaaatgg gcatcagaaa gcactgtgag acgcacagac ggcgtcttct gccaccaaga 1680
gaccgagaac tccagattca cgacattcct gtcccatgta gaagcatttc cattcatccg 1740
tgggccctct tcagaacctt gamctatcag tggcattttt ttttcataat ctacgaanaa 1800
cttggctatg gntgatcttt tttaaattta act 1833
```

<210> 471
<211> 3202
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3180)
<223> n equals a,t,g, or c

<400> 471

```
cggnacgcgt gggactgcaa cggagagact caagatgatt ccctttttac ccatgttttc 60
tctactattg ctgcttattg ttaaccctat aaacgccaac aatcattatg acaagatcct 120
ggctcatagt cgtatcaggg gtcgggacca aggcccaaat gtctgtgccc ttcaacagat 180
tttgggcacc aaaaagaaat acttcagcac ttgtaagaac tggataaaa agtccatctg 240
tggacagaaa acgactgtgt tatatgaatg ttgccctggt tatatgagaa tgggaaggaat 300
gaaaggctgc ccagcagttt tgcccattga ccatgtttat ggcaactctgg gcatcgtggg 360
agccaccaca acgcagcgct attctgacgc ctcaaaactg agggaggaga tcgagggaaa 420
gggatccctc acttactttg caccgagtaa tgaggcttgg gacaacttgg attctgatat 480
ccgtagaggt ttggagagca acgtgaatgt tgaattactg aatgctttac atagtcacat 540
gattaataag agaatgttga ccaaggactt aaaaaatggc atgattattc cttcaatgta 600
taacaatttg gggcttttca ttaaccatta tcctaattgg gttgtcactg ttaattgtgc 660
tcgaatcatc catgggaacc agattgcaac aaatggtggt gtccatgtca ttgaccgtgt 720
gcttacacaa attggtacct caattcaaga cttcattgaa gcagaagatg acctttcatc 780
ttttagagca gctgccatca catcggacat attggaggcc cttggaagag acggtcactt 840
cacactcttt gctcccacca atgaggtttt tgagaaactt ccacgaggtg tcctagaaaag 900
gatcatggga gacaaagtgg cttccgaagc tcttatgaag taccacatct taaatactct 960
ccagtgttct gagtctatta tgggaggagc agtctttgag acgctggaag gaaatacaat 1020
tgagatagga tgtgacgggt acagtataac agtaaatgga atcaaaatgg tgaacaaaaa 1080
ggatattgtg acaaaataatg gtgtgatcca tttgattgat caggtcctaa ttcctgattc 1140
tgccaaacaa gttattgagc tggctggaaa acagcaaacc accttcacgg atcttgtggc 1200
ccaattaggc ttggcatctg ctctgaggcc agatggagaa tacactttgc tggcacctgt 1260
gaataatgca ttttctgatg atactctcag catggatcag cgcctcctta aattaattct 1320
gcagaatcac atattgaaaag taaaagtgtg ccttaatgag ctttacaacg ggcaaatact 1380
ggaaaccatc ggaggcaaac agctcagagt cttcgtatat cgtacagctg tctgcattga 1440
aaattcatgc atggagaaaag ggagtaagca agggagaaaac ggtgcgattc acatattccg 1500
cgagatcatc aagccagcag agaaatccct ccatgaaaag ttaaaacaag ataagcgctt 1560
tagcaccttc ctcagcctac ttgaagctgc agacttgaaa gagctcctga cacaacctgg 1620
agactggaca ttatttgtgc caaccaatga tgcttttaag ggaatgacta gtgaagaaaa 1680
agaaattctg atacgggaca aaaatgctct tcaaaacatc attctttatc acctgacacc 1740
aggagttttc attggaaaag gatttgaacc tgggtgttact aacattttta agaccacaca 1800
aggaagcaaa atctttctga aagaagtaaa tgatacactt ctggtgaatg aattgaaatc 1860
aaaagaatct gacatcatga caacaaatgg tgtaattcat gttgtagata aactcctcta 1920
tccagcagac acacctgttg gaaatgatca actgctggaa atacttaata aattaatcaa 1980
atacatccaa attaagtgtt ttcgtggtag caccttcaaa gaaatccccg tgactgtcta 2040
```

```

taagccaatt attaaaaaat acacccaaaat cattgatgga gtgcctgtgg aaataactga 2100
aaaagagaca cgagaagaac gaatcattac aggtcctgaa ataaaaataca ctaggatttc 2160
tactggagggt ggagaaacag aagaaactct gaagaaattg ttacaagaag aggtcaccaa 2220
ggtcaccaa ttcattgaag gtggtgatgg tcatattatt gaagatgaag aaattaaaag 2280
actgcttcag ggagacacac ccgtgaggaa gttgcaagcc aacaaaaaag ttcaaggatc 2340
tagaagacga ttaagggaag gtcgttctca gtgaaaatcc aaaaaccaga aaaaaatgtt 2400
tatacaaccc taagtcaata acctgacctt agaaaattgt gagagccaag ttgacttcag 2460
gaactgaaac atcagcacaa agaagcaatc atcaaataat tctgaacaca aatttaatat 2520
ttttttttct gaatgagaaa catgagggaa attgtggagt tagcctcctg tggtaaagga 2580
attgaagaaa atataacacc ttacaccctt tttcatcttg acattaaaag ttctggctaa 2640
ctttggaatc cattagagaa aaatccttgt caccagatcc attacaattc aaatcgaaga 2700
gttgtgaact gttatcccat tgaaaagacc gagccttgta tgtatgttat ggatacataa 2760
aatgcacgca agccattatc tctccatggg aagctaagtt ataaaaatag gtgcttgggtg 2820
tacaaaactt tttatatcaa aaggctttgc acatttctat atgagtgggt ttactggtaa 2880
attatgttat tttttacaac taattttgta ctctcagaat gtttgtcata tgcttcttgc 2940
aatgcatatt ttttaatctc aaacgtttca ataaaacat ttttcagata taaagagaat 3000
tacttcaaat tgagtaattc agaaaaactc aagatttaag ttaaaaagtg gtttggactt 3060
gggaacagga ctttatacct cttttactgt aacaagtact cattaaagga aattgaatga 3120
aaaaaaaaaa aaaaaagggg cgggccgctc taagagggtt ccctcgaggg gggcccaagn 3180
tttacgcggg gcatgccgac gt 3202

```

<210> 472

<211> 941

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (927)

<223> n equals a,t,g, or c

<400> 472

```

gttccaagt ccccttactg acccgagaga cgtcattgcc gcagaggagc ctatgggagc 60
atataggttg taatgaaact gtagtctcag ttggaagcct agacatgaaa tgggtcagtg 120
agcaaggctc tattcctagt ctccagccat gcctgtggca acctgagccc gctctcagca 180
cattggaccc aggcagatgy aaaaaattca cagaactatg atttggaactc aagggtttgt 240
agatttcctc cttcattcta atttcagtgt ctaaaattct tgcatccrtg aacgagctgg 300
gcatttgatg agacagggcy gaatactgca gttttcctcc tagaaatcmt ctggggcatt 360
ttctttgaac tgatgggaac aataaggcat aactgtttgc aaaaacttgg gataartgat 420
tttgggataa cgatctacca gaatggggat atttcaccct tggttctgag atgcaaacca 480
aagaatatca tgaccagctt tcaggcctcc tgaagtatat ctctcacatt gtctgttct 540
catgctgagg agcctgagat ccctgtgtgg ggattagaca gtggactgtt atgggtgtag 600
gtgaattggc ttattttgtc tgtccctgtc tgaatgtatt gcaggaatta aaaaggacca 660
agaagaggaa gaagaccaag gcccaccatg cccagggctc agcagggagc tgctggaggt 720
agtagagcct gaagtcttgc aggactcact ggatagatgt tattcaactc cttccagttg 780
tcttgwaaca gcctgactcc tgccwgcctc ayrgaagttc cttttatgca ttggaggaaa 840
aacatgttgg cttttctctt ggacgtggga gaaattgaaa agaaggggaa ggggaagaaa 900
agaaggggaa gaagatcaaa gaagganaga agaaggggac g 941

```

<210> 473

<211> 1279

400

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

<400> 473
tcccgggtcg acccacgcgt ccgcggacgc gtgggatcaa caaactcatc cgaattggca 60
ggaatgagtg tgtggttgct attagggtgg acaaagaaaa aggatatatt gatttgtcaa 120
aaagaagagt ttctccagag gaagcaatca aatgtgaaga caaattcaca aaatccaaaa 180
ctgtttiatag cattcttcgt catgttgctg aggtgttaga atacaccaag gatgagcagc 240
tggaagcct attccagagg actgcctggg tctttgatga caagtacaag agacctggat 300
atggtgccta tgatgcattt aagcatgcag tctcagaccc atctattttg gatagtttag 360
atttgaatga agatgaacgg gaagtactca ttaataatat taataggcgc ttgacccac 420
aggctgtcaa aattcgagca gatattgaag tggcttgtaa tggttatgaa ggcattgatg 480
ctgtaaaaga agccctaaga gcaggtttga attgttctac agaaaacatg cccattaaga 540
ttaatctaata agtcctcctt cggatatgaa tgactacgac aaccctggag agaacagaag 600
gcctttctgt cctcagtcga gctatggctg ttatcaaaga gaagattgag gaaaagaggg 660
gtgtgttcaa tgttcaaata gagcccaaag tggtcacaga tacagatgag actgaacttg 720
cgaggcagat ggagaggctt gaaagagaaa atgccgaagt ggatggagat gatgatgcag 780
aagaaatgga agccaaagct gaagattaac tttgtgggaa acagagtcca atttaaggaa 840
cacagagcag cgcttctctg ctgtaaatcc tagacttgaa agttttccag tattgaaaac 900
ttcaaagctg aatatttttt atttctaagt atttaaattg tctaacagat cagaacatga 960
aatgccctcc taaatgtcag ctgttgctac acagtagctc caacactttg agcattttta 1020
agggagtggc ctcatttcac tagagacaaa tctttaagaa tagttctaaa attgggcttg 1080
tgatttccat ttctgatgct tccagattgg caccctttc tagttcaatg cctcacgaga 1140
tttnccaggg gcatccaagg caaacaatcc caatctttct atataaaatg tattcaagca 1200
aacatcaaat aaatttctgg gatatttaaa aaaaaaaaaa aaaaaggggg gggccttaaa 1260
gaaccaagtt tantttggg 1279

<210> 474
<211> 3209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 474
caactcccgg gacacatcct tcgagcagca tgtgctgtgg caacgggagg gaagggcggt 60
gacctggtct tgaactcctt ggcggaagag aagctgcarg ccagcgtgag gtgcttggct 120
acgcacggct gcttcctgga aattggcaaa ttcgacctt ctcagaacca mccgctcggc 180

atggctatct tcctgaagaa cgtgacatcc acgggggtcct actggatgcg ttcttcaaac 240
gagagcagtg ctgactggcg ggaggtgtgg gcgcttgtgc aggccggcat ccgggatggg 300
gtggtacggc ccctcaagtg cacgggtgttc catggggccc aggtggagga cgccttccgc 360
tacatggccc aaggggaagca cattggcaaa gtgcgtcgtgc aggtgcttgc ggaggagccg 420
gasagtnget gaagggggcc aaacccaagc tgatgtcggc catctccaag accttctgcc 480
cggcccacaa gagctacatc atcgctggtg gtctgggtgg ctctggcctg gaggttggcg 540
agtggctgat acagcgtggg gtgcagaagc tcgtgttgac ttctcgtcc ggatccgga 600
caggctacca ggccaagcag gtccgcccgt ggagggcgcca gggcgtacag gtgcaggtgt 660
ccaccagcaa catcagctca ctggaggggg cccggggsct cattgccgag gcggcgcast 720
tgggcccgtg ggcggcgtct tcaacctggc cgtggtcttg agagatggt tgctggagaa 780
ccagacccca gagttcttcc aggacgtctg caagcccaag tacagcgga ccctgaacct 840
ggacagggtg acccgagagg cgtgccctga gctggactac tttgtggtct tctcctctgt 900
gagctgcggg cgtggcaatg cgggacagag caactacggc tttgccaatt ccgccatgga 960
gcgtatctgt gagaacgcc ggacgaagg cctcccaggc ctggccgtgc agtggggcg 1020
catcggcgac gtgggcattt tgggtggagac gatgagcacc aacgacacga tcgtcagtgg 1080
cacgtgccc cagcgcatgg cgtcctgcct ggaggtgctg gacctcttcc tgaaccagcc 1140
ccacatggtc ctgagcagct ttgtgctggc tgagaaggct gcggcctata gggacaggga 1200
cagccagcgg gacctggtgg aggcgtggc acacatyctg ggcattccgc acttggtgc 1260
tgtcaacctg gacagctcac tggcggaact gggcctggac tcgctcatga gcgtggaggt 1320
gcgccagacg ctggagcgtg agctcaacct ggtgctgtcc gtgcgcgagg tgcggcaact 1380
cacgtcccg aaactgcagg agctgtcctc aaaggcggat gaggccagcg agctggcatg 1440
ccccacgccc aaggaggatg gtctggccca gcagcagact cagctgaacc tgcgtccct 1500
gctggtgaac ccggaggccc caccctgatg cggctcaact ccgtgcagag ctcggagcgg 1560
ccctgttcc tgggtgaccc aatcgagggc tccaccaccg tgttccacag cctggcctcc 1620
cggtcagca tccccaccta tggcctgcag tgcacccgag ctgcgcccct tgacagcatc 1680
cacagcctgg ctgcctaact catcagctgc atcaggcagg tgcagcccga gggcccctac 1740
cgctggccg gctactccta cggggcctgc gtggcctttg aaatgtgctc ccagctgcag 1800
gcccagcaga gcccagcccc caccacaaac agcctcttcc tgttcgacgg ctcgcccacc 1860
tacgtactgg cctacaccca gagctaccgg gcaaagctga cccaggtg tgaggctgag 1920
gtgagacgg aggccatatg cttcttcgtg cagcagttca cggacatgga gcacaacagg 1980
ctgtggagg cgctgctgcc gctgaaggcg ctagaggagc gtgtggcagc cgccgtggag 2040
ctgatcatca agagccacca gggcctggac cgccaggagc tgagctttgc gggccggtcc 2100
ttctactaca agctgcgtgc cgctgagcag tacacaccca aggccaagta ccatggcaac 2160
gtgatgctac tgcgcgcca gacgggtggc gcctacggcg aggacctggg cgcggtactac 2220
aacctctccc aggtatgcga cgggaaagta tccgtccacg tcatcgaggg tgaccaccgc 2280
acgtgctgg agggcagcgg cctggagtcc atcatcagca tcatccacag ctccctggct 2340
gagccacgcg tgagcgtgcg ggagggctag gcccggtgcc ccgctgcca ccggaggtca 2400
ctccaccatc cccacccac cccacccac ccccgccatg caacgggatt gaagggtcct 2460
gccggtggga cctgtccgg cccagtcca ctgcccccg aggtgctag acgtaggtgt 2520
taggcatgtc ccacccaccc gccgcctccc acggcacctc ggggacacca gagctgccga 2580
cttggagact cctggtctgt gaagagcggc tgggtgcccgt gcccgcagga actgggctgg 2640
gcctcgtgcg cccgtggggc ctgcgttgg tctttctgtg cttggatttg catatttatt 2700
gcattgctgg tagagacccc caggcctgtc caccctgcca agactcctca ggcagcgtgt 2760
gggtcccga ctctgcccc atttcccga tgtcccctgc gggcgcgggc agccacccaa 2820
gcctgctggc tgcggcccc tctcgccag gcattggctc agcccgtga gtggggggtc 2880
gtgggccaagt ccccgaggag ctgggcccct gcacaggcac acagggcccg gccacacca 2940
gcggccccc gcacagccac ccgtggggtg ctgcccttat gcccggcgcc gggcaccaac 3000
tccatgtttg gtgtttgtct gtgtttgtt ttcaagaaat gattcaaatt gctgcttggg 3060
ttttgaaatt tactgttaact gtcagtgtac acgtctggac cccgtttcat ttttacacca 3120
atgttgtaaa aatgctgctc tcagcctccc acaattaaac cgcatgtgat ctccaaaaaa 3180
aaaaaaaaa aaaaaaama mgcgtccgc 3209

<210> 475
 <211> 833
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (29)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<400> 475
 accaccgang tggangaccg actactgana actagtggat cccccgggac tgacaggnaa 60
 ttcggacacg agncagagat ggctcccaat gcttcctgcc tctgtgtgca tgtccgttcc 120
 gaggaatggg atttaatgac ctttgatgcc aaccatgatg acagcgtgaa aaaaatcaaa 180
 gaacatgtcc ggtctaagac caaggctcct gtgcaggacc aggttctttt gctgggctcc 240
 aagatcttaa agccacggag aagcctctca tcttatggca ttgacaaaga gaagaccatc 300
 caccttaccc tgaaagtggg gaagcccagt gatgaggagc tgcccttggt tcttgtggag 360
 tcaggatgat aggcaaagag gcacctcctc cagggtgcga ggtccagctc agtggcacia 420
 gtgaaagcaa tgatcgagac taagacgggt ataatccctg agaccagat tgtgacttgc 480
 aatggaaaga gactggaaga tgggaagatg atggcagatt acggcatcag aaagggcaac 540
 ttactcttcc tggcatstta ttgtattgga ggggtgaccac cctggggcatg ggggtgttggc 600
 aggggtcaaa aagcttattt cttttaatct cttactcaac gaacacatct tctgatgatt 660
 tcccaaaatt aatgagaatg agatgagtag agtaagattt ggggtgggatg ggtaggatga 720
 agtatattgc ccaactctat gtttctttga ttctaacaca attaatgaag tgacatgatt 780
 ttactaatg tattactgag actagtaaata aaatttttaa ggcaaaatag agc 833

<210> 476
 <211> 1141
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 476

```

aaagtgtggg ngtggctttt ccctaacttg acycttcttt cagtgggagr gaactattga 60
gaggaacaaa gagcttataa atacattagg acctggaatt cagttgtcga gccaggacgg 120
tgacagcggt taacaaagct tagagaaacc tccaggagac tgctatcatg gcagagaagc 180
ccaagctcca ctacttcaat gcacggggca gaatggagtc cacccggtgg ctcttggtg 240
cagctggagt agagtttgaa gagaaattta taaaatctgc agaagatttg gacaagttaa 300
gaaatgatgg atatttgatg ttccagcaag tgccaatggt tgagattgat gggatgaagc 360
tggtgcagac cagagccatt ctcaactaca ttgccagcaa atacaacctc tatgggaaa 420
acataaagga gagagccctg attgatatgt atatagaagg tatagcagat ttgggtgaaa 480
tgatcctcct tctgcccgtg tgtccaactg aggaaaaaga tgccaagctt gccttgatca 540
aagagaaaaa aaaaaatcgc tacttccctg cctttgaaaa agtcttaaag agccatggac 600
aagactacct tgttggcaac aagctgagcc gggctgacat tcatctggtg gaacttctct 660
actacgtcga ggagcttgac tccagtcctt tctccagctt ccctctgctg aaggccctga 720
aaaccagaat cagcaacctg cccacagtga agaagtttct acagcctggc agcccaagga 780
agcctcccat ggatgagaaa tctttagaag aagcaaggaa gattttcagg ttttaataac 840
gcagtcatgg aggccaagaa cttgcaatac caatgttcta aagttttgca acaataaagt 900
actttaccta agtgttgatt gtgcctggtg tgaagctaag gaactctttc aaattatatg 960
ctaattaaat aatacaactc ctattcgctg acttagttaa aattgatttg ttttcattag 1020
gatctgatgt gaattcagat ttccaatctt ctctagcca accattttcc tggaattaaa 1080
aattcagtaa aaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
g 1141

```

<210> 477

<211> 1102

<212> DNA

<213> Homo sapiens

<400> 477

```

tttgcacgta cgggtccggaa tcccgggtcg acccacgcgt ccgggaattc atgtggaggt 60
cagagtggaa gcaggtgtga gaggggtccag cagaaggaaa catggctgcc aaagtgtttg 120
agtccattgg caagtgtggc ctggccttag ctgttgacag aggcgtgggtg aactctgcct 180
tatataatgt ggatgctggg cacagagctg tcatctttga ccgattccgt ggagtgcagg 240
acattgtggt aggggaaggg actcattttc tcatcccgtg ggtacagaaa ccaattatct 300
ttgactgccg ttctcgacca cgtaatgtgc cagtcacac tggtagcaaa gatttacaga 360
atgtcaacat cacactgcgc atcctcttcc ggctgtcgc cagccagctt cctcgcatct 420
tcaccagcat cggagaggac tatgatgagc gtgtgtgcc gtccatcaca actgagatcc 480
tcaagtcaag ggtggctcgc tttgatgctg gagaactaat caccagaga gagctgggtc 540
ccaggcaggt gacgcagcgc cttacagagc gagccgccac ctttgggctc atcctggatg 600
acgtgtcctt gacacatctg accttcggga aggagtacac agaagcgggtg gaagccaaac 660
aggtggctca gcaggaagca gagaggcca gatttgggtt ggaaaaggct gagcaacaga 720
aaaaggcggc catcatctct gctgaggcgc actccaaggc agctgagctg attgccaaact 780
cactggccac tgcaggggat ggcctgatcg agctgcgcaa gctggaagct gcagaggaca 840
tcgctacca gctctcacgc tctcggaaca tcacctacct gccagcgggg cagtccgtgc 900
tcctccagct gcccagtgga gggcccaccc tgcctgcacc tccgcgggct gactggccac 960
agccccgatg attcttaaca cagccttctt tctgctccca cccagaaat cactgtgaaa 1020

```

tttcatgatt ggcttaaagt gaaggaaata aaggtaaaat cacttcagaa aaaaaaaaaa 1080
aaaaaaaaacc ccgggggggg gc 1102

<210> 478

<211> 4201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4077)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4186)

<223> n equals a,t,g, or c

<400> 478

gcggacgcgt gggcggacgc gtgggtscgg acgcgtgggc tcgcggcgcc gcctcctgct 60
cctcccgcgt ctgctgccgc tgccgccctg agtcactgcc tgcgcagctc cgcccgccctg 120
gtcccccata ctagtccgcg atattttggag ttcttacaac atggcagaca ttgacaacaa 180
agaacagctc gaacttgatc aagattttgga tgatgttgaa gaagtagaag aagaggaaac 240
tggtgaagaa acaaaactca aagcacgtca gctaactgtt cagatgatgc aaaatcctca 300
gattcttgca gcccttcaag aaagacttga tggctctgga gaaacaccaa caggatacat 360
tgaaagcctg cctagggtag ttaaaagacg agtgaatgct ctcaaaaacc tgcaagttaa 420
atgtgcacag atagaagcca aattctatga ggaagttcay gatcttgaaa ggaagtatgc 480
tgctctctat cagcctctat ttgataagcg atttgaaatt attaatgcaa tttatgaacc 540
tacggaagaa gaatgtgaat ggaaaccaga tgaagaagat gagatttcgg aggaattgaa 600
agaaaaggcc aagattgaag atgagaaaaa ggatgaagaa aaagaagacc ccaaaggaat 660
tcctgaatth ttggttaactg tttttaagaa tgttgacttg ctcaagtata tgggttcagga 720
acacgatgaa cctattctga agcacttgaa agatattaaa gtgaagttct cagatgctgg 780
ccagcctatg agttttgtct tagaatttca ctttgaaccc aatgaatatt ttacaaatga 840
agtgtgaca aagacataca ggatgaggtc agaaccagat gattctgatc ccttttcttt 900
tgatggacca gaaattatgg gttgtacagg gtgccagata gattggaaaa aaggaaagaa 960
tgtcactttg aaaactatta agaagaagca gaaacacaag ggacgtggga cagttcgtac 1020
tgtgactaaa acagtttcca atgactcttt ctttaacttt tttgcccctc ctgaagttcc 1080
tgagagtgga gatctggatg atgatgctga agctatcctt gctgcagact tcgaaattgg 1140
tcacttttta cgtgagcgta taatcccaag atcagtgcta tattttactg gagaagctat 1200
tgaagatgat gatgatgatt atgatgaaga aggtgaagaa gcggatgagg gttatcagct 1260
ctttgaagaa gtcaaaagct gcagtaaact tttccaacgt tggctgcagt aactattttc 1320
aataaaagct gtctggatgt ctcaagttgt gttgggaaat ttttcatatt agaagctttc 1380
aaattaaatt gtattatcat caaagtctgt aatcatgaaa atctgttgat ccgtagagta 1440
acttgtatta aattttccct acattatgag ccagtttacc tactatgtac atacttcatg 1500
gatgcatttt gaactttaat ataggaaggg gaagaagaag gagatgagga aaatgatcca 1560
gactatgacc caaagaagga tcaaaaccca gcagagtga agcagcagtg aagcaggatg 1620

tatgtggcct tgaggataac ctgcactggt ctaccttctg cttccctgga aaggatgaat 1680
ttacatcatt tgacaagcct attttcaagt tatttggtgt ttgtttgctt gtttttgttt 1740
ttgcagctaa aataaaaaatt tcaaatataa ttttagttct tacaagataa tgtcttaatt 1800
ttgtaccaat tcaggtagaa gtagaggcct acctgaatt aagggttata ctcagttttt 1860
aacacattgt tgaagaaaag gtaccagctt tggaacgaga tgctatacta ataagcaagt 1920
gtaaaaaaaaa aaaaaaaaga ggaagaaaat cttaagtgat tgatgctggt ttcttttaaa 1980
aaaaaaaaaa taaaattcat tttctttggg ttagagctag agagaaggcc ccaagcttct 2040
atggtttctt ctaattctta ttgcttaaag tatgagtatg tcaattaccc gtgcttctgt 2100
ttactgtgta attaaaatgg gtagtactgt ttacctaaact acctcatgga tgtgttaagg 2160
catattgagt taaatctcat ataagtctt tcaatcttgt taaaagctca aaattttggg 2220
cctatttgta atgccagtgt gacactaagc attttggtca caccacgctt tgataactaa 2280
actggaaaac aaagggtgta agtacctctg ttctggatct gggcagtcag cactcttttt 2340
agatctttgt gtggctccta tttttataga agtggaggga tgcactattt cacaaggctc 2400
aagatttggt ttcagatatt tttgatgact gtattgtaaa tactacaggg atagcactat 2460
agtattgtag tcatgagact taaagtggaa ataagactat ttttgacaaa agatgccatt 2520
aaatttcaga ctgtagagcc acatttataa tacctcaggc taattactgt taattttggg 2580
gttgaacttt tttttgacag tgagggtgga ttattggatt gtcattagag gaaggcttag 2640
atttcctgct cttaataaaa ttacattgaa ttgattttta gaggtaatga aaacttcctt 2700
tctgagaagt tagtggttaag gtcttggaat gtgaacacat tgtttgtagt gctatccatt 2760
cctctcctga gattttaact tactactgga aatccttaac caattataat agcttttttt 2820
ctttattttc aaaatgattt cctttgcttt gatttagacac tatgtgcttt ttttttttaa 2880
ccatagttca tcgaaatgca gctttttctg aacttcaaa atagaatccc atttttaatg 2940
aactgaagta gcaaaatcat ctttttcatt ctttaggaaa tagctattgc caaagtgaag 3000
gtgtagataa tacctagtct tgttacataa aggggatgtg gtttgacaga gaattttctt 3060
tataaaattg aagttttaag ggacgtcagt gtttatgcc tttttccagt tccaaaatga 3120
ttccattcca ttctagaaat ttgaagtatg taacctgaaa tccttaataa aatttgatt 3180
taattttata aaatgtactg gtgatatttt ggggtgtttt ttttaaata atgtatatac 3240
tttttttttg aagagtggag agtagtgatg tctagaggga gctattttgt gctgaggcca 3300
ctatgttctg taaatatata attttaagag caacctcaca atccctgcta agtggagttt 3360
attatttgaa gactaaaatg gaattccata gttcctgata ggttatattc tgrgttatta 3420
ttctgagtta tctacaaaca tttttgagat ttgtctttac actctgattg tagtttccag 3480
cagcccatgc acactgccaa gtaagtctca ttttttctg ttagaaatgg tgaaatatca 3540
tataatcact tataaagaaa actgatatga aaaaatttta gagttgttg ctttatggctc 3600
actcaagtag ggtaagtgtt ccacaaattc cacaagttga tagtttaaca tggatgtctg 3660
aaagccacat atataatttc ttaggattct taaattagta aatctagctt actgaagcag 3720
tattagcatc actatttttag attgcaaaaa taccttaatt gtgtggaact ggctttaga 3780
gtggtactta agaaaaatgg gattctacct ctatttctgt tttagcacac ttaatcagga 3840
aaggatatat taactttcat aaaaatattt ttgttggtg aataggttaa tgatatggta 3900
aggccctaa aataactgaa ttaattgttt attgtaattg taggccattc ccattattaa 3960
aaataaagac aaaacttgaa gtaactgaaa atcttatcgt gctatgtaga aatattgaac 4020
taatattcaa atatttgaat gctttggttt cagggtattg tttaaaattg gagtccnttt 4080
tttatggggt tagtcttaca aaaatttaag cttttatatt tttgacttta aatcaaaacc 4140
aaatgttatt ttaaatgtac nggaatwga ttgggtagg gcmggnagga rtgtwaggtt 4200
c 4201

<210> 479

<211> 787

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 479

```
gcagagcgca tgctctctct tgcccagat gccgaggatt ttgacaagga ctccgctcgtc 60
ccgatgata gtgctcaggt taatgccagt gggaggggcg cgccaatag taacttcctt 120
tggaggttgt agtaccgccc ccagagccaa tttccactt ccgcktccgg cgctgcggca 180
gtccagatca aaaatggcgg tagttggtgt gtcctcggtt tctcggctgc tgggtcggtc 240
ccgccacag ctggggcggc ctatgtcgag tggcgcccat ggcgaaggag gctcagctcg 300
catgtggaag actctcacct tcttcgtcgc gtcctccggg gtggcagtca gcatgctgaa 360
tgtgtacctg aagtgcgacc acggagagca cgagagaccc gagttcatcg cctaccccca 420
tctccgcatac aggaccaagc cgtttccctg gggagatggt aaccatactc tattccataa 480
ccctcatgtg aatccacttc caactggcta cgaagatgaa taaagagaat ctggaccact 540
acccgggcac cagggaccac agcactgggt tggaccgtta ctctgcacat ggaccagaaa 600
aagtatatgg gaccttaagc tcaccttctt tacttgatc aaatgatgac tggatactg 660
gtctcccatc cctttgcttg tggcaggaga tggttaaat aaataactta aayttaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactn 780
ggggccg                                           787
```

<210> 480

<211> 731

<212> DNA

<213> Homo sapiens

<400> 480

```
gaaacccag gcagccagcg tggaggetgt taagatgctg gatgagatcc tcctgcagct 60
gagcgctca gtgcccgtgg acgtgatgcc aggcgagttt gatcccacca attacagct 120
ccccagcag cccctccacc cctgcatgtt cccgctggcc actgcctact ccacgctcca 180
gctggtcacc aaccctacc aggccaccat tgatggagtc agatttttgg ggacatcagg 240
acagaacgtg agtgacattt tccgatacag cagcatggag gatcacttgg agatcctgga 300
gtggaccctg cgggtccgtc acatcagccc cacagcccct gacactctag gttgttacc 360
cttctacaaa actgaccgct tcacttcccc agagtgcctg catgtctact tttgtggcaa 420
cacccccagc tttggctcca aaatcatccg aggtcctgag gaccagacag tgctgttgg 480
gactgtccct gacttcagt ccacgcagac cgcctgcctt gtgaacctgc gcagcctggc 540
ctgccagccc atcagcttct cgggcttcgg ggcagaggac gatgacctgg gaggccttgg 600
ctgggccccct gactcaaaaa agtggttttg accagagagg ccagatgga ggctgttcat 660
tccctgcagt gtcggcattg taaataaagc ctgagcactt gctgatgcga aaaaaaaaaa 720
aaaaaaaaaa a                                           731
```

<210> 481

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 481

```
aataacgtgg caaccaccca cgagcccgcg tcggtgcccc ccccgagggg ggacctacta 60
tccggcgccg agccggaggg gggaaacgac gcccgccgcc cgcccgaggc ccgcgagcaa 120
ccccagtccc cccacccgc gcgtggcggc gccggtccc tagccaccgs ggccccaccc 180
tcttcggcc tcagctgtcc gggctgcttt cgcctccgcc tgtggatgct gcgcctctcc 240
gaacgcaaca tgaaggtgct ccttgccgcc gccctcatcg cggggctcgt cttcttcctg 300
```

```
ctgctgccgg gaccttctgc ggccgatgag aagaagaagg ggcccaaagt caccgtcaag 360
gtgtattttg acctacgaat tggagatgaa gatgtaggcc gggatgattt tggctcttc 420
ggaaagactg ttccaaaaac agtggataat tttgtggcct tagctacagg agagaaagga 480
tttggctaca aaaacagcaa attccatcgt gtaatcaagg acttcatgat ccaggggcga 540
gacttcacca ggggagatgg cacaggagga aagagcatct acggtgagcg cttccccgat 600
gagaacttca aactgaagca ctacgggcct ggctgggtga gcatggccaa cgcaggcaaa 660
gacaccaacg gctcccagtt cttcatcacg acagtcaaga cagcctggct agatggcaag 720
catgtgggtg ttggcaaagt tctagaggcc atggagggtg tgcggaaggg ggagagcacc 780
aagacagaca gccgggataa acccctgaag gatgtgatca tcgcagactg cggcaagatc 840
gaggtggaga agccctttgc catcgccaag gagtagggca cagggacatc tttctttgag 900
tgaccgtctg tgcaggccct gtagtccgcc acagggtctt gagctgcact ggccccgggtg 960
ctggcatctg gtggagcggg cccactcccc tcacattcca caggcccatg gactcacttt 1020
tgtaacaaac tcctaccaac actgaccaat aaaaaaaaaa gtgggttttt ttttttttta 1080
ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1119
```

<210> 482

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 482

```
ccagccgagc gtcgcgaggc cgccccccgc cctgccggcc gcctcgccga gcctcctggg 60
gcgcccgggc ccgcgacccc cgcacccagc tccgcagacc ggcgggcgcg cgcgggctct 120
ggaggccacg ggcattgnatg cttcgggtcc tgggtggggc tgctctccct gccatgetac 180
tggctgcccc accacccatc aacaagctgg cactgttccc agataagagt gcctgggtgcg 240
aagcaagaac atcacccaga tcgtgggcca cagcggctgt gaggccaaagt ccattccagaa 300
cagggcgtgc ctaggacagt gcttcageta cagcgtcccc aacaccttcc cacagtccac 360
agagtccttg gttcactgtg actcctgcac gccagcccag tccatgtggg agattgtgac 420
gctggagtgc ccgggcccag agggaggtgcc cagggtggac aagctggtgg agaagatcct 480
gcactgtagc tgccaggcct gcggcaagga gcctagtcac gaggggctga gcgtctatgt 540
gcagggcgag gacgggcccg gatcccagcc cggcacccac cctcaccccc atccccaccc 600
ccatcctggc gggcagaccc ctgagcccga ggacccccct ggggcccccc acacagagga 660
agagggggct gaggactgag gcccccccaa ctcttccctc cctctcatcc ccctgtggaa 720
tgttgggtct cactctcttg ggaagtcagg ggagaagctg aagccccctt ttggcactgg 780
atggacttgg cttcagactc ggacttgaat gctgcccggt tgccatggag atctgaaggg 840
gcgggggttag agccaagctg cacaatttaa tatattcaag agtgggggga ggaagcagag 900
gtcttcaggg ctcttttttt gggggggggg tggctcttcc ctgtctggct tctagagatg 960
tgctgtggg agggggagga agttggctga gccattgagt gctgggggag gccatccaag 1020
atggcatgaa tcgggctaag gtccctgggg gtgcagatgg tactgctgag gtcccgggct 1080
tagtgtgagc atcttgccag cctcaggctt gagggagggc tgggctagaa agaccactgg 1140
cagaaacagg aggtccggc cccacagggt tccccaaagg ctctcacccc acttcccac 1200
tccagggaag cgtcgcccca gtggcactga agtggccctc cctcagcgga ggggtttggg 1260
agtcaggcct gggcaggacc ctgctgactc gtggcgcggg agctgggagc caggctctcc 1320
gggcctttct ctggcttccct tggcttgccct ggtgggggaa ggggaggagg ggaagaagga 1380
aagggaagag tcttccaagg ccagaaggag ggggacaacc cccaagacc atccctgaag 1440
acgagcatcc ccctcctctc cctgttagaa atgttagtgc cccgactgtg gcccgaagtt 1500
```

```
ctaggccccc cagaaagctg tcagagccgg ccgccttctc ccctctccca gggatgctct 1560
ttgtaaatat cggatgggtg tgggagttag gggttacctc cctcgcccca aggttccaga 1620
ggccctaggc gggatgggtc cgctgaacct cgaggaaactc caggacgagg aggacatggg 1680
acttgctggg acagtcaggg ttcacttggg ctctctctag ctccccaatt ctgcctgcct 1740
cctccctccc agctgcactt taaccctaga aggtgggggac ctgggggggag ggacagggca 1800
ggcgggccca tgaagaaagc ccctcgttgc ccagcactgt ctgcgtctgc tcttctgtgc 1860
ccagggtggc tgccagccca ctgcctcctg cctgggggtg cctggccctc ctggctgttg 1920
cgacgcgggc ttctggagct tgtcaccatt ggacagtctc cctgatggac cctcagtctt 1980
ctcatgaata aattccttca acgccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaamaggggg gggccc 2056
```

<210> 483

<211> 887

<212> DNA

<213> Homo sapiens

<400> 483

```
tgctacaaat aggaaggaat tgtaataatg atatttggcc tctactttgt cttagctgtt 60
aaactgtttt tagtattttt gttaaatatt tgcaaaggga agcattttct acagaggata 120
attaatttca agaaaaatat cttgagtttt aagaaataaa catctccaga aaaggagaaa 180
gtcgatttta taaaatgtcg caactctcca acatttgggg tagtgactcc ttttttgta 240
ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttgtt 360
gcttgggtaa gcatcttctg ggaactttgt atctatggta tataatcata gaattttata 420
ttttcatata aagctaattt ttttctagtt tcaactccgt catagtkttt tttccttttt 480
gtggtggata tgtgaattca actttctgtg tattgaagta gcaaaaacca tctttacatt 540
ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggttttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
tcgtcacatt gaccatttg gaaaaagtgt gctttttttt tttttttaa tttgttcagg 720
gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaaact atatcaaac 780
attctattat agtgttattt aatatgtaaa ttgtattgct atacataaaa taaagtatgg 840
ttttgatgtg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa 887
```

<210> 484

<211> 1878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1446)

<223> n equals a,t,g, or c

<400> 484

```
tctcctcgtg gctagttcag gcggaaggag cagtcctctg aagcttgagg agcctctaga 60
actatgagcc cgaggccttc ccctctccca gagcgagag gctttgaagg ctacctctgg 120
gaagccgctc accgtcggaa gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gtcgtytcc cgcctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaaggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420
```

```

cagccttccg agggagcctg ctaagctggt acgaccaaga gaaacgggac ctaccatgga 480
gaagacgggc agaagatgag atggacctgg acaggcgggc atatgctgtg tgggtctcag 540
aggtcatgct gcagcagacc caggttgcca ctgtgatcaa ctactatacc ggatggatgc 600
agaagtggcc tacactgcag gacctggcca gtgcttccct ggaggagggtg aatcaactct 660
gggctggcct gggctactat tctcgtggcc gggcggctgca ggaggaggct cggaagggtg 720
tagaggagct agggggccac atgccacgta cagcagagac cctgcagcag ctctgcctg 780
gcgtggggcg ctacacagct ggggccattg cctctatcgc ctttgccag gcaaccggtg 840
tgggtggatgg caacgtagca cgggtgctgt gccgtgtccg agccattggt gctgatccca 900
gcagcaccct tgtttcccag cagctctggg gtctagccca gcagctggtg gaccagccc 960
ggccaggaga tttcaaccaa gcagccatgg agctaggggc cacagtgtgt accccacagc 1020
gcccactgtg cagccagtgc cctgtggaga gcctgtgccg ggcacgccag agagtggagc 1080
aggaacagct cttagcctca gggagcctgt cgggcagtc tgacgtggag gagtgtgctc 1140
ccaacactgg acagtgccac ctgtgcctgc ctccctcgga gccctgggac cagaccctgg 1200
gagtgggtcaa cttccccaga aaggccagcc gcaagccccc caggaggagg agctctgcca 1260
cctgtgttct ggaacagcct ggggcccttg gggcccaaat tctgctggtg cagaggccca 1320
actcaggtct gctggcagga ctgtgggagt tcccgctcgt gacctgggag cctcagagc 1380
agcttcagcg caaggccctg ctgcaggaac tacagcgttk ggctggscct ctcccagcca 1440
cgcacntccg gcaccttggg gaggttgtcc acaccttctc tcacatcaag ctgacatc 1500
aagtatatgg gctggccttg gaaggcgaga cccagtgac caccgtacca ccaggtgctc 1560
gctgctgacg caggaggaat ttcacaccgc agctgtttcc accgccatga aaaaggtttt 1620
ccgtgtgtat cagggccaac agccagggac ctgtatgggt tccaaaaggc cccaggtgctc 1680
ctctccgtgc agtcggaaaa agccccgcct gggccagcaa gtcctggata atttctttcg 1740
gtctcacatc tccactgatg cacacagcct caacagtgca gccagtgac acctctgaaa 1800
gccccattc cctgagaatc ctgttgtag taaagtgtt atttttgtag ttaaaaaaaa 1860
aaaaaaaaa aaaaaaaa 1878

```

<210> 485

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 485

```

ctttcatact acccttttagt cataaggaga aaaaaacact caaatagtag aagcagcaag 60
tagcaaaactt caggagagct actttctatc caaataattt aaaaaacact tttcacctac 120
tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240
agactcatgt gttttgggga aaggaagaag ttcttggtg agtactattt tgaactttcc 300
agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gcctttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtaccccag 660
tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840
gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacctatcat 900
gttctctttt tgttggtaca ctgttggtg ggtataacaa ttggaaaatg acaaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaacgt gtgcattctt 1140

```



```

actgaaaatg ttttcaaagg aaggtatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttggt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggctagaga agaatcgctt ttggtttaaa atgtatgtgg tcccctaata attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt
1566

```

<210> 486

<211> 3046

<212> DNA

<213> Homo sapiens

<400> 486

```

gtcgaccac gcgtccggac accgccgcag ttgccggtac atcggggatt tctggctctt 60
tcctcttcgc cttaaattcg ggtgtctttt atgaataatc aaaagcagca aaagccaacg 120
ctatcaggcc agcgttttaa aactagaaaa agagatgaaa aagagagggt tgaccctact 180
cagtttcaag actgtattat tcaaggetta actgaaaccg gtactgattt ggaagcagta 240
gctaagtttc ttgatgcttc tggagcaaaa cttgattacc gtogatatgc agaaacactc 300
tttgacattc tgggtgctgg tggaatgctg gccccagggt gtacactggc agatgacatg 360
atgcgtacag atgtctgcgt gtttgagcc caagaagatc tagagaccat gcaagcattt 420
gctcagggtt ttaacaagtt aatcaggcgc taaaaatacc tggagaaagg ttttgaagat 480
gaagtaaaaa agctgctgct gttcttgaag ggtttttcag agtcggagag gaacaagcta 540
gctatgttga ctggtgttct tctggctaata ggaacactta atgcatccat tcttaatagc 600
ctttataatg aaaatttggt taaagaagga gtttcagcag cttttgctgt gaagctcttt 660
aaatcatgga taaatgaaaa agatatcaat gcagtagctg caagtcttcg gaaagtcagc 720
atggataaca gactgatgga actctttcct gccataaagc aaagtgttga acacttcaca 780
aaatatttta ctgaggcagg cttgaaagag ctttcagaat atgttcggaa tcagcaaacc 840
atcggagctc gtaaggagct ccagaaagaa cttcaagaac agatgtcccg tggatgacca 900
tttaaggata taattttata tgtcaaggag gagatgaaaa aaaacaacat cccagagcca 960
gttgtcatcg gaatagtctg gtcaagtgtat atgagcactg tggaatggaa caaaaagag 1020
gagctttag cagagcaagc catcaagcac ttgaagcaat acagccctct acttgctgcc 1080
tttactactc aaggtcagtc tgagctgact ctgttactga agattcagga gtattgctat 1140
gacaacattc atttcatgaa agccttccag aaaatagtgg tgctttttta taaagctgaa 1200
gtcctgagcg aggagcccat tttgaagtgg tataaagatg cacatgttgc aaaggggaag 1260
agtgttttcc ttgagcaaat gaaaaagttt gtagaatggc tcaaaaatgc tgaagaagaa 1320
tctgaatctg aagctgaaga aggtgactga attttgaaac tacaccctca gtaaaagcaa 1380
caggagttgt agataaaatg tcatgtctca tgtgtcctgg ttcttacatc ttcctacctc 1440
cctgtatcaa gcatgatata agggctttca tggcaaatat tattttaact gtttctatgg 1500
ttgctggaat tggtgggttt agtttctaaa accatgtttt aagtagctac aggagctata 1560
gatttgaatc taatgttgca ttagtctttt cagttatctt ctacctctg tattttctac 1620
tgtaataatg taatttaagg ccttccacaa tgaacagttc actttattcc ctgggttttc 1680
tataaacagt tttaaggata tgatttggtt aaaaaataat ttgttataaa aattctgttt 1740
gcaaatataa ctgaaaaagt atccagagtc tcaaaaggca atgatttgtg agataatatg 1800
gcatgcccgg agccctgctc atcaatgaaa aaccatagtg taataatcga attcatttaa 1860
catgaatctt gactacgtgg accattgctt gcatgttaac tttttgtttt gttttgtttt 1920
gttttggttt gcatttttaa ctccagatat cctaaagctc aattgtttgg tctctggttt 1980
tcaccttag agaagccatg gagaacagac ttgaaaagtt taggaaatca taatgtggca 2040
gaggtggtgg gaagaagaaa gttgagcttt ttccccttga gaaacttctg catttagttt 2100
ctatctttcc aggcaaaaca aatgggtatt cttttcatac aaccattttc aaatgaacct 2160

```

```

tagaaaagtc ttaacattta aggtatttta tgcacagaat acacttagat tgataggaaa 2220
gaactcgtaa tggagtttga gtaaagaaaa tgactgatgt actaaaccca gtaaaaattg 2280
ttgaaaatgt taaaggtcag catgttctaa ttgggaatct agatatagct tagatttcct 2340
attggcttag agtatttgct ataacaaatg aagtgcattg acaattatat attcctactc 2400
ggtcatactg gactggcttc gttctcttaa tatactcagt aatgactcaa gcctctggct 2460
attaacatac cctagttgcc gttttttaat tgccatgagc caaatacttc ttggtataca 2520
attgatccat ttattttaat ggctgccttt tcattttcat cttttcttgc tgctacccat 2580
ctatgtatgt agtcattggg gggaaaatgt agccacattt tttatgggaa gacttttgtg 2640
taaaaagtga cattttgaag gtttttaact ggtgaaacta gcctggaata atgccaccag 2700
agactgagtg gaaatcgccc cttttgaagg tgccattctt atgagccaaa agtttgtcat 2760
ttaaaaagttc attttgaggg aataacatgt aatataattt gaaataaagg tatagtaacc 2820
ttaaaaagaa cattataact gattgttgtg aatggggtga atttgttaaa atgagtaact 2880
ttgataaagt ttttcatgca caggcaaaat gtattcacta gatttctacg tagtgatctg 2940
cttttacttt gtaatttgta gttctcaaaa gacttttttt taaaaaaata aagtccatac 3000
ttacacttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 3046

```

<210> 487

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 487

```

ctgggtactgc agcgtaggcc tcgcctcaac ggcaggagag caggcggctg cggttgctgc 60
agccttcagt ctccaccggg actacgccat gttgggggtt gtgggctggg tggccgctgc 120
tccggcctcc ggggccttgc ggagactcac cccttcagcg tcgctgcccc cagctcagct 180
cttactgcgg gccgctccga cggcggcca tcctgtcagg gactatgcgg cgcaaacatc 240
tccttcgcca aaagcaggcg ccgccaccgg gcgcacgtg gcggtcattg gcgcagtggt 300
ggacgtccag tttgatgagg gactaccacc aattctaaat gccctggaag tgcaaggcag 360
ggagaccaga ctggttttg aggtggccca gcatttggt gagagcacag taaggactat 420
tgctatggat ggtacagaag gcttggttag aggccagaaa gtactggatt ctggtgcacc 480
aatcaaaatt cctgttggtc ctgagacttt gggcagaatc atgaatgtca ttggagaacc 540
tattgatgaa agaggtccca tcaaaaccaa acaatttgct ccattcatg ctgaggtccc 600
agagttcatg gaaatgagtg ttgagcagga aattctgggt actggtatca aggttgctga 660
tcgtgtagct ccctatgcca aggttgcaa aattgggctt tttggtggtg ctggagttgg 720
caagactgta ctgatcatgg agttaatcaa caatgtcgcc aaagcccatg gtggttactc 780
tgtgtttgct ggtgttggtg agaggaccgg tgaaggcaat gatttatacc atgaaatgat 840
tgaatctggt gttatcaact taaaagatgc cacctctaag gtagcgctgg tatatggtca 900
aatgaatgaa ccacctggtg ctctgccccg ggtagctctg actgggctga ctgtggctga 960
atacttcaga gaccaagaag gtcaagatgt actgctattt attgataaca tctttcgctt 1020
caccaggct ggttcagagg tgtctgcatt attgggccga atcccttctg ctgtgggcta 1080
tcagcctacc ctggccactg acatgggtac tatgcaggaa agaattacca ctaccaagaa 1140
gggatctatc acctctgtac aggtatctta tgtgcctgct gatgacttga ctgaccctgc 1200
ccctgctact acgtttgccc atttgatgc taccactgta ctgtcgctg ccattgctga 1260
gctgggcac tatccagctg tggatcctct agactccacc tctcgtatca tggatcccaa 1320
cattgttggt agtgagcatt acgatgttgc ccgtggggtg caaaagatcc tgcaggacta 1380
caaatccctc caggatatca ttgccatcct gggatggat gaactttctg aggaagacaa 1440
gttgaccgtg tcccgtgcac ggaaaataca gcgtttcttg tctcagccat tccaggttgc 1500
tgaggtcttc acaggtcata tggggaagct ggtaccctg aaggagacca tcaaaggatt 1560
ccagcagatt ttggcaggtg aatatgacca tctcccagaa caggccttct atatggtggg 1620
accattgaa gaagctgtg caaaagctga taagctggct gaagagcatt catcgtgagg 1680
ggtctttgct ctctgtactg tctctctcct tgcccctaac ccaaaaagct tcatttttct 1740

```

gtgtaggctg cacaagagcc ttgattgaag atatattctt tctgaacagt atttaagggt 1800
tccaataaaa tgtacacccc tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1904

<210> 488

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (826)

<223> n equals a,t,g, or c

<400> 488

gtacngattc ccggtcgacc cacgcgtccg acatggagct gttcctcgcg ggccgccggg 60
tgctggtcac cggggcaggc aaagggtatag ggcgcgccac ggtccaggcg ctgcacgcga 120
cgggcgcgcg ggtggtggct gtgagccgga ctcaggcgga tcttgacagc cttgtccgcg 180
agtgcccggg gatagaaccc gtgtgcgtgg acctgggtga ctgggaggcc accgagcggg 240
cgctgggcag cgtgggcccc gtggacctgc tgggtgaacaa cgccgctgtc gcagattgtg 300
gccaggggct taatagcccc gggagtccca ggggccatcg tgaatgtctc cagccagtgc 360
tcccagcggg cagtaactaa ccatagcgtc tactgtctca ccaaggggtgc cctggacatg 420
ctgaccaagg tgatggccct agagctcggg cccacaaga tccgagtga tgcagtaaac 480
cccacagtgg tgatgacgtc catgggccag gccacctgga gtgaccccca caaggccaag 540
actatgctga accgaatccc acttggaag tttgctgagg tagagcacgt ggtgaacgcc 600
atcctctttc tgctgagtga ccgaagtggc atgaccacgg gttccacttt gccggtgga 660
gggggcttct ggcctgctg agctccctcc acacacctca agcccatgc cgtgctcatc 720
ctaccccaaa tccctccaat aaacctgatt ctgctgcca aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaana 827

<210> 489

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 489

aattcggcac gagccatccc ggtgccggtc ccggacggca gcagtctgct caccaccgcc 60
ctgccctcca tggcgccggc cgcggggccc ctggacggca aagtcgccgc cctggccgcc 120
agcccgccct cgttggcagt ggactcgggc tctgaactca acagccgctc ctccacgctc 180
tcctccagct ccatgtcctt gtcgccc aaa ctctgcgcgg agaaagaggc ggccaccagc 240
gaactgcaga gcatccagcg gttggttagc ggcttggaag ccaagccgga cagggtccgc 300
agcgcgtccc cgtagacccc tcccagacac gtcttttcat tccagtccag ttcaggctgc 360
cgtgcacttt gtcggatata aaataaacca cgggcccgcc atggsgttas ccttcctttt 420
gcagttgcgt ctgggaagg gccccggact ccctcgagag aatgtgctag agacagcccc 480
tgtcttcttg gcgtgggtta tatgtccggg atctggatca gattctgggg gctcagaaac 540
gtcggttgca ttgagctact gggggtagga gttccaacat ttatgtccag agcaacttcc 600

```
agcaaggctg gtctgggtct ctgcccacca ggcggggagg tgttcaaaga catctccctc 660
agtgcggatt tatatatata tttttccttc actgtgtcaa gtggaacaa aaacaaaatc 720
tttcaaaaaa aaaatcsgha caagtgaaca cattaacatg attctgtttg tgcagattaa 780
aaactttata gggacttgca ttatcgggtc tcaataaatt actgagcagc tttgtttggg 840
gaggaagtc cctaccatcc ttgttttagtc tatattaaga aaatctgtgt ctttttaata 900
ttcttgtgat gttttcagag ccgctgtagg tctcttcttg catgtccaca gtaatgtatt 960
tgtgggtttt attttgaacg cttgctttta gagagaaaac aatatagccc cctacccttt 1020
tccaatcct ttgccctcaa atcagtgacc cargggaggg ggggatttaa aggaaggag 1080
tgggcaaaac acataaaatg aatttattat atctaagctc tgtagcagga ttcatgtcgt 1140
tctttgacag ttctttctct ttcctgtata tgcaataaca aggttttaaa aaaataataa 1200
agaagtgaga ctattagaca agtatattat gtaattattt gataactctt gtaaataggt 1260
ggaatatgaa tgcttggaat attaaacttt aatttattga cattgtacat agctctgtgt 1320
aaatagaatt gcaactgtca ggttttgtgt tcttgttttc ctttagttgg gtttatttcc 1380
aggtcacaga attgctgtta acactagaaa acacacttcc tgcaccaaca ccaataccct 1440
ttcaaaagag ttgtctgcaa catttttggt ttctttttta atgtccaaaa gtgggggaaa 1500
gtgctatttc ctattttcac caaaattggg gaaggagtgc cactttccag ctccacttca 1560
aattccttaa aatataactg agattgctgt ggggagggrg gagggcagag gctgcggttt 1620
gactttttta tttttctttt gttatttgta tttgctagtc tctgatttcc tcaaaacgaa 1680
gtggaattta ctactgttgt cagtatcggg gttttgaatt ggtgcctgcc tatagagata 1740
tattcacagt tcaaaagtca ggtgctgaga gatggtttaa agacaaattc atgaaggat 1800
attttgtgt atagtgttg atgrgttctt tggttttctg tatttttccc cctctcttta 1860
aaacatcact gaaatttcaa taaattttta ttgaaatgtc aaaaaaaaaa aaaaaagggc 1920
ggccgc 1926
```

<210> 490

<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 490

```
ggacgacaga agggsagacg cagaggcgga caagatggcg gcggcagctg tacaggggcg 60
gagaagcggg ggtagcggag gctgtagtgg ggctgggtgt gcttccaact gcgggacagg 120
aagtggccgt agcggcttgt tggataagtg gaagatagat gataagcctg taaaaattga 180
caagtgggat ggatcagctg tgaaaaactc tttggatgat tctgcaaaa aggtacttct 240
ggaaaaatac aaatatgttg agaatttttg tctaattgat ggtcgctca ccatctgtac 300
aatctcctgt ttctttgcca tagtggcttt gatttgggat tatatgcacc cctttccaga 360
gtccaaaccc gttttggctt tgtgtgtcat atcctatttt gtgatgatgg ggattctgac 420
catttatacc tcatataagg agaagagcat ctttctcgtg gccacagga aagatcctac 480
aggaatggat cctgatgata tttggcagct gtccctcagt cttaaaagggt ttgatgacaa 540
atacaccttg aagctgacct tcatcagtgg gagaacaaag cagcagcggg aagccgagtt 600
cacaaagtcc attgctaagt tttttgacca cagtgggaca ctggtcatgg atgcatatga 660
```

```

gcctgaaata tccaggctcc atgacagtct tgccatagaa agaaaaataa agtagccaat 720
tctaaaagta gccctctttc tcctggatct tgctgaatta gtggcttggg ggggtggggga 780
gataaaaaga acttaaaatg ggtaaagtaa gaaatgttaa aaagtccctg ttttgcctg 840
aaattttagt ctattctggg taaataggat tttctgacac agatatgaga agttgtagct 900
ctgatgtcta gctgtagtct ccttgatctg ctgattgcat tattttaatt tgcttttctg 960
ggaaagcagt tttgctaaaa gctgtacaga ctttttcttt tgtacctagc agtactttat 1020
atagtatagc tttgggccat gtagcatttt aagactcaat tttaaaaaat tattaatctg 1080
ttgctgactc ttaattccta tttcaatatg tgtttccttg aagaattcag gatacaactt 1140
cttgtgtatg acagcttttc ttcacacact atttttgtgg gtgtgtatat atctgatttg 1200
ggaagaattt aaaaaacaca tagcttttta atttgtttga aacagacttt ctgcctgtta 1260
catttttgct tttaaccaat taaagaagcc aatggcattt tagttttata ttgtgttttc 1320
cactagtata tccctgttga tttgtttgtg ctttttatta actgccattt tctaaaattt 1380
ttttcaataa aaggaaggaa gatgtgaaaa aaaaaaaaaa aaaaaaatgg gngggccgaac 1440
ttatccctag gnggggtattt a 1461

```

```

<210> 491
<211> 805
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

```

```

<400> 491
tccaaagtgc tgggattacn gctgagccac gtgctcagcc gcaaaattct ttatgaattt 60
tacacttggc aaatgttaat gacggaagcc atagtctgct cctaatacat gtccaaagca 120
ttgactgttg tgtcattagc tgccctggta cattagctcc ctggcttctt gtttagacca 180
ctgctaattc cttaaaaaca agaggtctgg cactagtagc acaacctaaag gtggcattac 240
agatccttga gcgagccaca gcaacttttc tgccaagtca gcttagttaa gacttcagtg 300
aatcaggcta ttgctatcct aatgtatgtc tctatgagtg tatttagcca cacatctgcc 360
cttggttgac tttctgactc attgcttgct tgcttgtttc cttgctttgg aaaactattg 420
aagattgcta aaaaatacca ctgcaaagtg atggaaaagg gtggagaaca ggggagtagc 480
caggctggat ggctcaaata taaatgaatg aggaattctt tatgaagtat cagtcagatt 540
ttatgattaa gtgatgtaat ataggaatta tgtaaaaggg aagaatgtct gatactgac 600
tattagagag gtactttaga ggcttcttga ttggcataaa gttcctaagg ttatagattt 660
tccccctttt tggctgtata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
taaaattgta tcttcgatcc atcaataaat acttgtgggt gaaacaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaa 805

```

```

<210> 492
<211> 2269
<212> DNA
<213> Homo sapiens

```

```

<400> 492
agaagaatag tctcaccctg cgtgtgccaa ggtggagtat gcctacagcg acaacagcct 60
ggaccccgat gatgaggaca gtgattacca ccaggaggcc tacaaggagt cctacaaaga 120
ccggcgggcg cgcgcacaca ctcaggctga gcagaagagg agggacgcca tcaagagagg 180
ctatgatgac cttcagacca tcgtccccac ttgccagcag caggacttct ccattggctc 240

```

```

ccaaaagctc agcaaagcca tcgttctaca aaagaccatt gactacattc agtttttgca 300
caaggagaag aaaaagcagg aggaggaggt gtccacgtta cgcaaggatg tcaccgccct 360
aaagatcatg aaagtgaact atgagcagat tgtgaaggca caccaggaca acccccatga 420
aggggaggac caggtctctg accaggtcaa gttcaacgtg tttcaaggca tcatggattc 480
cctgttccag tccttcaatg cctccatctc agtggccagc ttccaggagc tgtcagcgtg 540
tgtcttcagc tggatcgagg agcactgtaa gcctcagacc ctgcgggaga ttgtgattgg 600
cgtcctgcac caattgaaaa accagcttta ctgaccggtt cttggaaacc tggagaacag 660
ccaacaagag gcccttgaat ctctacgtgg ccactgaact gctgggcccg ggagactgga 720
ctacaacacc tcacactggt cagctgggtt ctacttggtg tttgggtttt cccagcccca 780
ttttatcttc agcggagccg cgggtgttgt tttgtgaaag cttctgatta atttattata 840
ttgacgataa aactcaaacc taccagcct tccccccact ccatggaagt ccttgggatg 900
ggcgtctgct ctggacaccc caaagagctc ctgccctctc agccctttat tcaagcctca 960
gatttctgct catgatctac atagatttgg aaactgtttt cctctgtttt ggtctcttgg 1020
gcaacatttt tggcccaagt ttgggcaaca tttggcccaa gtttgggcat tttggcagta 1080
gctgtatggg agaaaaagag taagaggaaa tattcccaca gccatgaagg gtgaaagggc 1140
accttgtgcc tagactaggg ctgcctggtc agtcccagggt gaggccaagg gctttctggc 1200
catctcaggg aggggccacc aggttcctcc cctcacccca tattccatca ccttcctcct 1260
ctgctctggg tggtaaggga agccctcccg gttcccacag gctatgatgc tgcattggcag 1320
aggcaggtat aacacagcac tacatatagg aaatttttta tttttctaaa taccaatgca 1380
gttttgctac ggttacaatt ttgaaatatt aactgagcct caaaatcacc ctttctgtca 1440
agcatatctt ggcctctccc atgtctcagt gttgcctgca tttctcccag gacttggggg 1500
tggggtgaaa agcgtacaaa agatacttaa aagggtcctt ggggtacaca agcccagcag 1560
gtcctgagtg aagccgtggg ccctccaaat gctcgtttta tagcaacctc tctctaccct 1620
agttctccaa attcacttct gccttcctca ggtttgatat ctggcagggt tgactatcca 1680
gaggaaatta aatattttta tataaaatta aattataata aatattgcca aatgctttcc 1740
tttagcattg ttccaagtct aaatgttaac ctcaagctac tgcaatttag acaatgaaat 1800
kggctgggtc tacccccagc caccagccct catcctctct acccagtgt ctggtttatg 1860
cttgtctcct gactgctctg cttaaagggt aaagtagcag gaacaacaac aaaagccaac 1920
caaaaacaag gtagccagtg caagacatct cactcttctg acatcctgca gtccccacca 1980
gtcctgaccg tgggccttca ggggtctggg agtgtagcgt tgtaatcttc atccgtctct 2040
atcccaactt cctcctgtga gacagggaga caagtgaatg agatgtcacc aggataagac 2100
cacagggaa gcaaagaagg agagagctcc acttacaaag aactgcttct tgccttggg 2160
gtatccttca agtattgcat cagacagctc tgtagcctga caagaaataa aaccacccgt 2220
tttcagatgg gcagcacctg gcactgcctg tcagtttatg atatttgtt 2269

```

<210> 493

<211> 4108

<212> DNA

<213> Homo sapiens

<400> 493

```

cacgagtact acaatatgtt gtcccagaag tgaaagacct ttacaattgg cttgaagtag 60
aatttaaccc attaaaactc tgtgagcgag tcacaaaggt tctaaattgg gttagggaac 120
aacctgaaaa ggaaccggaa ttgcagcagt atgtgccaca actgcaaac aacaccatcc 180
tccgccttct gcagcagggt tcacagattt atcagagcat tgagttttct cgtttgactt 240
ctttggttcc ttttgttgat gctttccaac tggaacgggc catagtagat gcagccaggc 300
attgcgactt gcaggttcgt attgatcaca cttctcggac cctgagtttt ggatctgatt 360
tgaattatgc tactcgagaa gatgctccga ttggctcctca tttgcaaagc atgccttcag 420
agcagataag aaaccagctg acagccatgt cctcagttact tgcaaaaagca cttgaagtca 480
ttaaaccagc tcataactg caagagaaa gagaacagca tcagttgggt gtcactgcat 540
accttaaaaa ttcacgaaaa gagcaccagc ggatcctggc tcgccgccag acaattgagg 600

```

```

agagaaaaga ggccttggag agtctgaata ttcagcgtga gaaagaagaa ttggaacaga 660
gggaagctga actccagaaa gtgcggaagg ctgaggaaga gaggctgcgc caggaagcaa 720
aggagagaga gaaggagcgt atcttacagg aacatgaaca aatcaaaaag aaaactgtcc 780
gagagcgttt ggagcagatc aagaaaacag aactgggtgc caaagcattc aaagatattg 840
atattgaaga ccttgaggaa ttggatccag attttatcat ggctaaacag gttgaacaac 900
tggagaaaaga aaagaaagaa cttcaagaac gcctaaagaa tcaagaaaag aagattgact 960
atthttgaaag agccaaacgt ttggaagaaa ttcctttgat aaagagcgt tactgaggaac 1020
agagaattaa agacatggat ctgtgggagc aacaagagga agaaagaatt actacaatgc 1080
agctagaacg tgaaggaggc cttgaacata agaatcgaat gtcacgaatg cttgaagaca 1140
gagattttatt cgtaatgcga ctcaaagctg cacggcagtc tgtttatgag gaaaaactta 1200
aacagtttga agagcgatta gcagaagaaa ggcataatcg attggaagaa cggaaaaggc 1260
agcgtaaaga agaacgcagg ataacatact atagagaaaa agaagaggag gagcagagaa 1320
gggcagaaga acaaagtcta aaagagcggg aagagagaga gcgcgccgaa cgagcaaac 1380
gcgaggaaga gctacgagag tatcaggagc ggggtgaagaa attagaagaa gtggaaagga 1440
aaaaacgcca aagggagttg gaaattgaag aacgagaacg gcgtagagag gaagagagaa 1500
gacttggcga tagttccctt tctagaaagg actctcgttg gggagataga gattcagaag 1560
gcacctggag aaaaggacct gaagcagatt ctgagtggag aagaggcccg ccagagaagg 1620
agtggagacg tggagaaggg cgagatgagg acaggtctca tagaagagat gaagagcggc 1680
ccggcgctct gggggatgat gaagatagag agccctctct tagaccagac gatgatcggg 1740
ttccccggcg tggcatggat gatgacagag gccctagacg tggctctgag gaagataggt 1800
tctctcgtcg tggggcagac gatgaccggc ctctctggcg taacacagat gatgacaggc 1860
ctcccagacg aattgccgat gaagacaggg gaaactggcg tcatgcggat gatgacagac 1920
cacctagacg aggactggat gaggacagag gaagctggcg aacagctgat gaggacagag 1980
gaccaagacg tgggatggat gatgaccggg ggccgagggc aggagggcgt gatgatgagc 2040
gatcatcctg gcgtaatgct gatgatgacc ggggtcccag gcgaggggtg gatgatgac 2100
gggggtcccag gcgagggcat gatgatgacc ggggtcccag gcgagggcat gatgatgacc 2160
gggggtcccag gcgagggcat gatgatgacc ggggtcccag gcgaggggtg gatgatgac 2220
gaggaccttg gaggaacgcc gatgatgaca gaattcccag gcgtggtgca gaggatgaca 2280
ggggcccttg gaaaaacatg gatgatgatc gcctttcaag acgtgctgat gatgatcgg 2340
ttcccagacg gggatgatgac tcaagacctg gtctttggag accattagtc aagccagggt 2400
gatggagaga gaaagaaaaa gccagagagg agagctgggg tccacctcga gaatcaaggc 2460
catcagaaga acgtgaattg gacagagaaa aagaaaaggga cagagataat caagatcggg 2520
aggagaatga caaggacctg gagagagaaa gggcagagaa gagagatgtg gatcgaggt 2580
atcgcttcag aagacctagg gatgaagggt gctgggaaag aggaccagct gaggaatctt 2640
caagctggag agactcaagt cgccgggacg atagggatag ggatgaccgt cgccgtgaga 2700
gggatgaccg gcgtgatcta agagaaaagac gagatctaag agacgacagg gaccgaagag 2760
gacctccact cagatcagaa cgtgaagaag taagttcttg gagacgtgct gatgacagga 2820
aagatgaccg ggtggaagag cgggacctc ctctcgtgagt tcctcccca gctctttcaa 2880
gagaccgaga aagagaccga gaccgagaaa gagaagggtga aaaagagaag gcctcatgga 2940
gagctgagaa agatagggaa tctctccgtc gtactaaaaa tgagactgat gaagatggat 3000
ggaccacagt acgacgttaa gtctcaagat aatggattta aactgggtgc ttaaataggt 3060
ttgatcacat tcaaggatta ttatacttgt gcttcaacca atctaaattg gattctttaa 3120
tggtgtttca ccataacaca aaaagcatga acttgtatta atcctatata atagattgat 3180
catgcaccat atccacagga ggttggaata accatgccat tttctggaat ttaagggtgt 3240
tgcattatth catcaatcat ttgttgacaa aaaagaaaaa ctaaaaata aatttaaaat 3300
gtgaaccttc aggtattgag taacaccttt atcttggtat agaactgata cttttttttg 3360
atthttgaaat atctgataat aatttggaat gaagtaagggt tctgttaaaa tatatttgaa 3420
gaccttttaa agcagtgaat ctgaaacaat tttcacaccc ttaagtgggt gatacgtaac 3480
tatttttaggt atthttgagg atttaccata aactaaatth agaaatthtt tagattcact 3540
tgaagtaaac attacaaaca ttggatacgg tggggttttc tttatgatttt acttgagaga 3600
agggtgagtac aaagcaatth gcagttgttg taatgacaag attactgcgc aagtgtgaat 3660

```

```

ccaaacagta tagcttttaa attttaaagc atttggtaaa ttatcgctga gtttttttct 3720
gttgccaata gcaaactgct tttccattaa tggagaattc atgcctttca agcattttta 3780
atatgacaat atttataaat gtatggtttg gaggaatcgt ttaaattctc tttcctaatt 3840
ttctttcttt tgaagataga ttctttcaac aagtaatttg tagtaatgac tgtgttgact 3900
tcaatttttg agcgagtag ctatgttaaa gatgaactat ttggtctcat tgaagccaac 3960
acagaacttg ctgctgtgtt ttttcttcag tgataaataa aatacttaca gaatttgttt 4020
tagtgttgat ttgtggttat agtatttggt taataatggt aagtttgcca tattcagttg 4080
gagggttttt tttacttgaa tttttaat 4108

```

<210> 494

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 494

```

gcggggcattc accccatgaa cagcatcagc agcctggaca ggactcgcat gatgaccccc 60
ttcatgggca tcagccccct cccgggcgga gagcgcttcc cgtacccttc tttccactgg 120
gaccccatcc gggacccctt gagggatcct taccragaac ttgacattca ccggagagac 180
ccgctgggca rggacttcct gctaaggaa c gacccgytcc accggtctc gactycccg 240
ctgkacsaag ccgaccgctc cttcagggac cgggagcctc acgactacag ccaccaccac 300
caccaccacc accaccgct gtctgtggac cctcggcggg agcacgagcg gngaggccac 360
ctggacgagc gggagcgctt gcacatgctc agagaagact acgagcacac gcggctccac 420
tccgtgcacc ccgcctccct cgacggacac ctccccacc ccagcctcat caccgccgga 480
ctccccagca tgcactatcc ccgcatcagc cccaccgcg gcaaccagaa cggactctc 540
aacaagacct ctccgacagc agcgctgagc gcacctccc cgctcatctc cagctgggg 600
ggccgcccgg tctctcccag aaggacgact cctctgtccg cagagataag ggagagccc 660
ccttcccaca cgctgaagga tatcgaggcc cgataagccg agaacaggag caagaacgag 720
gaagaagaaa ccctaggcag acaccaggcc aggcttgaga gacagaactc ctgcatggct 780
cacacagact gggggggaaa gccccacccc ttccccctgt aaaaaatgta tagactcagt 840
gcacattttt aaatgttttg tatattatat gttgagattt ttcagatctt ttagccag 900
catatgttct cagctctcct actttttgtt tctcgataaa aactttttga tttgaaccaa 960
aacagtgaag atgacaacac acaccaattg gatgataatt gtagcggggg cgggtggggg 1020
gagaagtcca cgccatccat catgcaaaat tctttcagat gaggtgggaa ggccgtgtac 1080
atagttatgt aaaaagagat tgcttcatga gctaattggt catatatgca aaagggtgag 1140
atgaaagctt tactttgtac aaatgtaaat agataaagta acataatata ttaatacttc 1200
ttaaaatgtg ctatttgcaa acttacttaa tatcagttaa cacagtcggc taaagctgtg 1260
ttcccatata ttgttataga cagctaaacc cttcaactat gcaatgaatg ttcgggcttt 1320
tcacaaaagc ccgcctaact caaaggagcc ttttcaaata catttacagc atacttaagg 1380
tcatattttt cctgaacaag cgcttacgtg atatgactct gttttccttg cttgtttttt 1440
ttcaaacgga gaaacatcct gttttgcaa ttggacccca ggctggaact tagcatctga 1500
agttgccgct tgtgggctct gggggaaagt gtagccccgg agaggtaact gaggacatga 1560
gcaaccagtg ccaggggagg tgggatttgc cagatgccaa aatcagggga cgggtggtg 1620
tgtctgtcag acacacacag gtcgccagt acttcacaca cacctcatgt gagaaccatg 1680
ccttttttag tgtgtcctat ttcataacct tacacacttc ctcgttttgt aatgagattt 1740
acttacaccc aaacagatcc tgaaagaaag cttcaagttt tctcagatga tggatatgtt 1800
ttcactgtat tcaataactg acggatgtaa ggtgcacgtt tcctgatgtg acgcactgta 1860

```



```

ttccagctgg tgatcaagtc tgggaacagc cgtaacaggt caaccttggt gagccatcgc 1920
gagtttagagg gtgaaagatg gcagaaaaaa aagtcttggt tgtgagtggt ttttttgagt 1980
ttgcatcaat cttaatgtct cttcataata cttttataat acattaagcc tcttgcttac 2040
atatattggag agaatatgac tttactagca gagaaataca atatatcttg tctactggac 2100
tgtaaaaatat atgtatgaaa taaaattagt tccatttggt cttctagtat attaaagtgc 2160
tatctgacgt tggtatcctg tttttgcaaa aaaaaaaaaa aaaaaaatt 2209

```

<210> 495

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 495

```

gggggtggagg gactaaagga tgcccaaatg cgggatctcc tgtccccgcc cacagacaac 60
aggccagggtc agatggacaa tcggagcaag ctccggaaca tcgtggagct gcgcctggca 120
ggcctggaca tcacagatgc ctccctgcgg ctcatcatcc gccacatgcc cctgctctcc 180
aagctccacc tcagttactg taaccacgtc accgaccagt ctatcaacct gctcactgct 240
gttggcacca ccacccgaga ctcccttaacc gagatcaacc tgtctgactg caataagggtc 300
actgatcagt gcctgtcctt cttcaaacgc tgtggaaaca tctgtcatat tgacctgagg 360
tactgcaagc aagtcaccaa ggaaggctgt gagcagttca tagccgagat gtctgtgagt 420
gtccagtttg ggcaagtaga agaaaaactc ctgcaaaaac tgagttagtc caaggataag 480
tatgtaaata cggggcgggc tctgggaggg gagagacttt aaaaaaatga gggcttttat 540
tttccatttg gaacgtggga caacagacca caacgcaatt ccattttgca agtctttcca 600
agggagaagc tgttcaacca cccgtttggg ggatgagtga gccgacactt tcctttggtc 660
tttctgaatc gtaactgcac tgctttcttg accatttcta aggcggcctt tacaagaaga 720
cattcctgtc ggagaggagg gtggacttcg gagaaattct cactactgaag catgagctta 780
ggagtttctg ttagtggtag tgggtgtttg gacacttcat tccttgcaac accgaggttt 840
tgggtgttga cataaagtgg accacacacc acatctgctg ccgtcttgac actttttttt 900
gtttggttgg ttttggtaca tcttacatta tgcagaacta tttttgtaca aattgtttaa 960
aagttattta tgcaagggtt gaatgcatac cagtgttttt attgttttga gattgccaat 1020
tttctgatt tccttaagggt aggagagaat ttaacgtgta cttcatcgac acàaccatc 1080
tacaaatgtg cccagatcta acaaagttag ctaagacctt ccacttaaaa gcatgtttaa 1140
ctggaagttag agagtctgct ttgtacctca agagttacat gagcatgttg tggataaatg 1200
taaattatag tcaaagtaag atactctgcc aagtttcctc tgtagagaat tcacttttct 1260
caaattttaa aatttcgact tcagcctttg cactcaggag gttctgctcc agcatgagct 1320
cttgacttta catagatcta atttatacag tgagtcaaga cgtagaataa atgctccac 1380
atagcctttc ttttgctttt gcttctctcc tctgaagtgt gagttgagtt ctcathtagt 1440
tttgtaacat ggctatttcc tagttgtaaa gttctgcatt tataagtgcc attgttgtaa 1500
gggtgtgttt cctagacctt ccctgatgag attttacctt tgttgaaatt gtataaacia 1560
ttgtacaaaa aaaaccactc ttgaactttg agggtttctg ttctaggagt ggactagaag 1620
ttaaagccca gagtcagtaa acactgtttt gaagtccaaa aaaaaaaaaa aaaaaaa 1677

```

<210> 496

<211> 1702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 496

```
cgagattccg ggattggaat caaaatgcta atttaaaagg tcaagtgaag ctgctcctca 60
cgttttggcg tgcctgcgct ctctgcaggc agaagcgaac aaagaccag caagagaagg 120
cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
atgccagagg acatggagca ggaggaagtt aacatcccta ataggagggt tctggttact 240
ggtgccactg ggcttcttgg cagagctgta cacaaagaat ttcagcagaa taattggcat 300
gcagttggct gtggtttcag aagagcaaga ccaaaatttg aacaggttaa tctgttggat 360
tctaattgcag ttcattcacat cattcatgat ttccagcccc atgttatagt acattgtgca 420
gcagagagaa gaccagatgt tgtagaaaat cagccagatg ctgcctctca acttaattgtg 480
gatgcttctg ggaatttagc aaagggaagca gctgctgttg gagcatttct catctacatt 540
agctcagatt atgtatttga tggaaacaaat ccaccttaca gagaggaaga cataccagct 600
cccctaaatt tgtatggcaa aacaaaatta gatggagaaa aggctgtcct ggagaacaat 660
ctaggagctg ctgttttgag gattcctatt ctgtatgggg aagttgaaaa gtcgaagaa 720
agtgtgtgta ctgttatgtt tgataaagtg cagttcagca acaagtcagc aaacatggat 780
cactggcagc agaggttccc cacacatgtc aaagatgtgg ccactgtgtg ccggcagcta 840
gcagagaaga gaatgctgga tccatcaatt aagggaacct ttactgggtc tggcaatgaa 900
cagatgacta agtatgaaat ggcatgtgca attgcagatg ccttcaacct cccagcagt 960
cacttaagac ctattactga cagccctgtc ctaggagcac aacgtccgag aaatgctcag 1020
cttgactgct ccaaattgga gaccttgggc attggccaac gaacaccatt tcgaattgga 1080
atcaaagaat cactttggcc tttcctcatt gacaagagat ggagacaaac ggtctttcat 1140
tagtttattt gtgttgggtt cttttttttt tttaaataaa aagtatagta tgtggcactt 1200
tttaaagaac aaaggaaata gttttgtatg agtactttaa ttgtgactct taggatcttt 1260
caggtaaatg atgctcttgc actagtgaat ttgtctaaag aaactaaagg gcagtcatgc 1320
ctgtttgtag taatttttct ttttatcatt ttgtttgtcc tggctaaact tggagtttga 1380
gtatagtaaa ttatgatcct taaatatatt agagtcagga tgaagcagat ctgctgtaga 1440
cttttcagat gaaattgttc attctcgtaa cctccatatt ttcaggattt ttgaagctgt 1500
tgaccttttc atgttgatta ttttaaattg tgtgaaatag tataaaaatc attggtgttc 1560
attatttgcg ttgcctgagc tcagatcaaa atgtttgaaag aaaggaactt tatttttgca 1620
agttacgtac agtttttatg cttgagatat ttcaacatgt tatgtatatt ggaaaaataa 1680
agttcctttc ntcaaacatt nt 1702
```

<210> 497

<211> 2376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2376)

<223> n equals a,t,g, or c

<400> 497

```
ggctcnaaca tccttttgcg gtgacgagct acgggaagaa tctgtatttc acagactgga 60
agatgaattc cgtgggttgc ctcgatcttg caatttccaa ggagacggat gctttccaac 120
cccacaagca gaccgggtg tatggcatca ccacggccct gtctcagtg cgcgaagcca 180
taactactgc tcagtgaaca atggcggtg caccaccta tgcttgcca cccagggag 240
caggacctgc cgttgccctg acaacacctt gggagttgac tgtatcgaac agaaatgaag 300
acaagagtgc cttatttcct ttccaagtat ttcacagcaa caywytactt gaagcaactt 360
ggtccagatt gaaaagtgtc ctctggctga gtggccacta ggcccagacc cagcccagcc 420
tgagcccaa caacttttcc ctactgttc cccaaaacat gcacctgga cttctctaata 480
agaaaagtct ccacccttac acaaggacag aaccctccac ccctaccccc aaccctcaga 540
cagacttata caccctgag tgaggattac atgcccattc cagtgtccta ggaccttttc 600
ccaatactag ccccccagtg gtgaacagaa cctcccaaat ttgagttgca ccctccctg 660
tggccttatg agctcagcct cgctttgagg taccacccgt cctgtcagct ccttgacct 720
tgagccgggg cctgactagg aaaagttggg agttaaggag gaaattagca ttccttaata 780
ttttgttttg gtgctctgaa tttcttcttt attatagtcc tatagtttta ctcctcagtt 840
cctcaccatc atcatcttgt ctaagacccc cattataata ttcattgcgt gctttttcat 900
caaaacctac cctgtcctag agatctatgg gcatttggtg gatgataatg agcagcccct 960
cccagataga atgtcaatat ttgagcagta ggatattggc atttgttagt taaaggctta 1020
aatcaaaaaga atgtccaatg gtaggaattt caaggtgtag gtcagatatt tgagaatagg 1080
ggattttttt gatgtgcctt aaattatacc aaagattact aattattcct ctttgcccaa 1140
aatacttgca tccaagggtc tagtctctgt tgctgtgctg gtcttttagcc ccactgctkg 1200
cactgatgtc cctccttttc acggagacct atctgaggta caggatgggg ctggcaccag 1260
atgatgtccc acccaggtcc ctcacctccg gcctccacat gacagaacca atttaccact 1320
aaccatgacc tcaccctccc ttggtttctc cctcgatctg tggccctttt tggatgtatt 1380
cttatctaac aacacaatcc ggaaagactg aattgaatat ttataactaat ggttcataatc 1440
ctttattgct caatgatcta attaaaggga tcattgccac atttcatgtt tatatttcta 1500
caatttgttt agaaaacatc tcctgacct atcagtagct cgtgttatct ttttatcaac 1560
tgcttccag agtcctaaaa caatagaaat tttggattga aaagttcagc ataaggagtt 1620
tgagtcagta aaggatggga taaaggagtc gagatgattc aatgaaaagt atcacaaaaa 1680
agagattgat caacaagaga aataaaaaag cccaagagga agtggtaggg gaaggaaatt 1740
aagaacagca ataagtaaaa ctcttaagta actccaaaaa gaaaatggta cattttgcca 1800
aagaccactt atacttgaga acatggaaga atttgctga tactctcttt ggggaaaaga 1860
gtctctcctc ttttcctcaa accccagtac actcagcctc tctgccccac cttctcctga 1920
ctttgtcctc acttgcttct gcagtacatt ggaacctgaa ttgaaagaaa gtcttccttg 1980
aataattgga gtttgcttg agaggcaaat atagcccaa gaatcacaag attcgaggac 2040
catgtaggtc ttttacgtag cccaaatcca taaattagtc tcactttttg tatttatcgt 2100
ttcatattaa accctctata tcaaattgtc atcatgattt tgtatgattt ttataactat 2160
tttattcatt ttattagatt tattctaaaa ttttttaatt gtaaatctt aaactgtgga 2220
aaccactgaa ggtgcttatt aactgttctc ccagatttgt acaagtattg gatgattcct 2280
tgagtttaca gctgtacaaa tagtgtgga aataaaacttt ttttaaaaaa gaaaaaaaaa 2340
```

aaaaaaaaaa aaanaaaaaaaa aaaaaaaaaa aaaann

2376

<210> 498

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 498

acgccgggat ggggcggctcg garktcmcg gtcgacccac gcgtctcgca ggccgtagag 60
gaagatggcg gtggagtcgc gcgttaccca ggaggaaatt aagaaggagc cagagaaacc 120
gatcgaccgc gagaagacat gccactgtt gctacgggtc ttcaccacca ataacggccg 180
ccaccaccga atggacgagt tctcccgggg aaatgtaccg tccagcgagt tgcagatcta 240
cacttggtatg gatgcaacyt tgaaagaact gacaagctta gtaaaagaag tctaccaga 300
agctagaaag aagggcactc acttcaattt tgcaatcggt tttacagatg ttaaaagacc 360
tggctatcga gttaaggaga ttggcagcac catgtctggc agaaagggga ctgatgattc 420
catgaccctg cagtcgcaga agttccagat aggagattac ttggacatag caattacccc 480
tccaaatcgg gcaccacctc cttcagggcg catgagacca tattaaattc tatttactat 540
ttgttgaatt tatttttccg tcagttatgt aaaataaaca tactcttctt cctcccctga 600
ttattgccat taagccttta aattctaaac aaattataat gcatcatcta tttaggagtt 660
agatttggtat gtgctattgt atgattacga atagtctgta tgtttcaagc ctttctgtaa 720
aatatgaaga aaagtgtctt tagcattctg tgtaaaactg tactgttaaa tatatgtgtg 780
taatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840

<210> 499

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 499

ggcacagctt cctcctctt cctttctccg ccacgtggt gtgttcttga ctccgctgct 60
cgccatgtct tctcacaga ctttcaggat taagcgattc ctggccaaga aacaaaagca 120
aaatcgtccc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct gggctataa ggaattgcac atgagatggc 240
acacatattt atgtgtcttg aaggtcacga tcatgttacc atatcaagct gaaaatgtca 300
ccactatctg gagatttcga cgtgttttcc tctctgaatc tgttatgaac acgttggttg 360
gctggattca gtaataaata tgtaaggcct ttcyttttta aaaaaaaaaa aaaaacyrrr 420

422

ggggggggccc gggtcccaat cccccctatt tnaanccct t

461

<210> 500

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2742)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2779)

<223> n equals a,t,g, or c

<400> 500

ctcaagggttg cccaaactga tgggtgtcaat gtggacatgc acttgaagca gattgagata 60
aagaagttca agtacggtat tgaagagcat ggtaagggtga aaatgcgagg ggggttgctg 120
cgaacctaca tcatcagtat cctcttcaag tctatctttg aggtggcctt cttgctgac 180
cagtgggtaca tctatggatt cagcttgagt gctgtttaca cttgcaaaag agatccctgc 240
ccacatcagg tggactgttt cctctctcgc cccacggaga aaaccatctt catcatcttc 300
atgctgggtg tgctccttgg gtccctggcc ttgaatatca ttgaactctt ctatgttttc 360
ttcaagggcg ttaaggatcg ggtaaggga aagagcgacc cttaccatgc gaccagtgg 420
gcgctgagcc ctgcctaaaga ctgtgggtct caaaaatatg cttatttcaa tggctgctcc 480

```
tcaccaaccg ctcccctctc gcctatgtct cctcctgggt acaagctggt tactggcgac 540
agaacaatt cttcttgccg caattacaac aagcaagcaa gtgagcaaaa ctgggctaata 600
tacagtgcag aacaaaatcg aatggggcag gcgggaagca ccatctctaa ctcccatgca 660
cagccttttg atttccccga tgataaccag aattctaaaa aactagctgc tggacatgaa 720
ttacagccac tagccattgt ggaccagcga ccttcaagca gagccagcag tcgtgccagc 780
agcagacctc ggctgatga cctggagatc tagatacagg cttgaaagca tcaagattcc 840
actcaattgt ggagaagaaa aaagggtgctg tagaaagtgc accagggtgtt aattttgatc 900
cgggtggagggt ggtactcaac agccttattc atgaggctta gaaaacacaa agacattaga 960
atacctaggt tctactggggg tgtatggggg agatgggtgg agaggaggag gataagagag 1020
gtgcatgttg gtatttaaag tagtggattc aaagaactta gattataaat aagagttcca 1080
ttaggtgata catagataag ggctttttct ccccgcaaac acccctaaga atggttctgt 1140
gtatgtgaat gagcgggtgg taattgtggc taaatatttt tgttttacca agaaactgaa 1200
ataattcttg ccaggaataa atacttctctg aacatcttag gtcttttcaa caagaaaaag 1260
acagaggatt gtccttaagt ccctgctaaa acattccatt gttaaaattt gcactttgaa 1320
ggtaagcttt ctaggcctga ccctccaggt gtcaatggac ttgtgctact atattttttt 1380
attcttggtg tcagtttaaa attcagacaa ggcccacaga ataagatttt ccatgcat 1440
gcaaatacgt atattctttt tccatccact tgcacaatat cattaccatc actttttcat 1500
cattcctcag ctactactca cattcattta atggtttctg taaacatttt taagacagtt 1560
gggatgtcac ttaacatttt ttttttgagc taaagtcagg gaatcaagcc atgcttaata 1620
tttaacaatc acttatatgt gtgtcgaaga gtttgttttg tttgtcatgt attggtacaa 1680
gcagatacag tataaactca caaacacaga tttgaaaata atgcacatat ggtgttcaaa 1740
tttgaacctt tctcatggat ttttgtgggt tgggccaata tgggtgtttac attatataat 1800
tcctgctgtg gcaagtaaa cacacttttt ttttctccta aaatgttttt ccctgtgtat 1860
cctattatgg atactggttt tgtaattat gattctttat tttctctcct ttttttagga 1920
tatagcagta atgctattac tgaaatgaat ttcttttttc tgaaatgtaa tcattgatgc 1980
ttgaatgata gaatttttagt actgtaaaca ggcttttagtc attaatgtga gagacttaga 2040
aaaaatgctt agagtggact attaaatgtg cctaaatgaa ttttgagta actgggtattc 2100
ttgggttttc ctacttaata cacagtaatt cagaacttgt attctattat gagtttagca 2160
gtcttttgga gtgaccagca actttgatgt ttgcactaag attttatttg gaatgcaaga 2220
gaggttgaaa gaggattcag tagtacacat acaactaatt tatttgaact atatgttgaa 2280
gacatctacc agtttctcca aatgcctttt ttaaaactca tcacagaaga ttggtgaaaa 2340
tgctgagatg gacacttttc ttcttgcctg catgtcagct acataaacag ttttgtacaa 2400
tgaaaattac taatttgggt gacattccat gttaaactac ggtcatgttc agcttcattg 2460
catgtaatgt agacctagtc catcagatca tgtgttctgg agagtgttct ttattcaata 2520
aagttttaat ttagtataaa catagcttct atattccgtc tcaaaaaaaaa aaaaaaaaaa 2580
acgtgcttag ttcagttcaa gttgctcctt tataatttgn ttttgatga aaaaagattg 2640
ngncatttgt ttaaagtcag aggattatct aaaagccagt ttcccagtc atttggatat 2700
aattggtagt gngaatactt cttcaaggac tattacttgg gnggttgag aatttatnt 2760
ggaagaaggc aaatgcttng gg 2782
```

<210> 501

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 501

```

gcaaggagtc cccaatgcaa agacacagcg ctgcgnttgg cacctccttc ctcactccct 60
caaaattggt aagaaatggt agtgggtgggt ctgatctgac tgcagccatc ggtaaataaa 120
agtttttgat cctggtgaac ccgcctgaga cgggtgctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtcccccttc cttccggcca atggcagaag tgggggaaaa 240
tttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt attttttgggt 300
tgagtattta tctttttatt ttttattttt ttttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacagggtgga tctttgtgctg 480
aacaacttgc atttcggaag ccactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccggggc tccgyctgcc gtcccccttc atgttcctcc tcttccttcg 600
cttcagcctc ttctgttatg ttttgtcttg aattttattt agactttttc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaactt tctggtccga gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcggattca ggattgcggg gacgcagaaa 780
ggttaaggca cttttaaaaa ctatagcaag gtcctgtttt atttattcta ctttctttcc 840
ctaataatca aaacaccgcg taggtcctc cgtttatcag tattaatggt gtaactttgt 900
tggcaatatt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatatgt tttatataaa tatatatata atatgaagga 1020
ctaccctcct tttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccttt 1140
tgtgtatttt ttcctaaaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaattgt atcaactaga aataaaattg catgagtatt ttaaaaaaa 1249

```

<210> 502

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1351)

<223> n equals a,t,g, or c

<400> 502

```

cccgcacccct agccaggccc cagggagcct ccgctgggcc cagacagcag cgattygggtt 60
tatccactttt tctyggataa tcaggaggtg cccagtsgt cacagtgtgg cattccgagt 120
tggggcgggt ggtcgggtca agatagcagc agcaggtgtc agggctcaag acaccacccc 180

```

```
ctccagcttc tggggcccag gagcctctcc ctgctacagg ggggtgggggt cctgctcagc 240
agggtagggtg gtggttttag gtcttggtcac cctcactcag tggaactgcc tctgggagct 300
ttggcgtctg tractaaagg gacgctggat tgctcaggtc agctgctcgg ggctcccagg 360
ctgggtgtgc cttagccaca ggcagggtg tcaataaccc ccttcctcac tggccaccac 420
ctgacatcag caccagtgc aggctgggtca gagggcgggg ctgggtgaggg tttgtcctaa 480
gaggaccacc gccatctctg ggtctccagg gggagagcct ggccctgtcc tttgtacccc 540
agggtgccc ccaggcccat gaagccaata ggagagcgtg tggcactggc ccacaaactg 600
tccctgtcct gtcttcctcc cgagccatgg cctctgctag ctccaccttg aaggagcccc 660
ccacatcctc ccctacatcc cagagatgcc accacttggt tctccacaat gtgctcctgc 720
ccaccgggt tccgactgt ccgaccctg cacaccactc atgtcaccac ggcgtgcatc 780
atgttcatcc ccactatatt atttaagcct ttctttgctt gtagggcatt ttgtatgtag 840
agcagttgaa aacagaacct cagaacttaa catctgtcct gatgttaaag tgcttttcat 900
gaccaccctg ttatctatgt atatgtaaag ttaaggatga gatcttaagt ttacaattaa 960
aaactcagta ctcaatattt aatattctac tcgagcttta tggaagccaa atcatgtgca 1020
tgtgtgtgtg tgcgtgtgtg caagctttga acctcctcc acagccgcat cttctcatga 1080
cacaaagctt ttgataagta ctttcctgtg ggctcgctcag ggcctcatag catctcattc 1140
aattacaaga atagaggcca gacacgggtg cgcattgcct gtagtcccag ctaaactggg 1200
gaggctggag ggcaggggagg gatcactttg gagcccagg agattggagg gctggcagtg 1260
gagccatgga tccggcgag actggcactt ccagcctggg ggtggacggg tggagacttt 1320
tgttctccaa aaanaaaaaa aaaaaancnt nggagggc 1358
```

<210> 503

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 503

```
gcccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaacccg ccggactttc tgtaagaagt 120
gtggcaagca ccaaccccat aaagtgcac agtacaagaa gggcaaggat tctctgtacg 180
cccaggga aaagcgttat gacaggaagc agagtggcta tgggtgggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgatcc agttctaagt gtcattttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg gggggcccgg taccawtcg 480
cctatagggg gncgtttaaa a 501
```

<210> 504

<211> 2011

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1941)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1974)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2002)
<223> n equals a,t,g, or c

<400> 504

```
gatctgcctt cccagttaga ctgagagaac aggggatata cctaaataat aataataata 60
ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
agaatcattg agggcttatt ttgtatacca actgctaaac tagatgcttc atacattgtt 180
gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
gacatatgaa taccttgga aatctggaaa gctgggaaga cagtaattga actcaagact 300
tcttgtcacc aagggcacgc acttgtactc tgccatgtgg scctttttta cctcctgtgg 360
attctcccta ctgggtactt ggccttaggt gtacacacac ctggcacttt gcttgacaca 420
taatagggtg accacaaata tctactaaat gaatatgtgc atatagtaat attttaagg 480
actaaaagca gctcaaagta aatattaata tattaattcc attgctatct ggataaccac 540
tcaactttcc tgctgaaaat gcccatttaa ttaaagaagg ttggatagag ctctctatat 600
gcatttttga caggcagggg tttcagggtca taaacattct gatgagttaa tataaaataa 660
gagaaaactg aaatttccac tactaaaaat cacaaaaata acagaaaaca aagaagagat 720
aagaatttgg ggaattgtgc tgaacaattt agtgggttaa aaaaacaact gtgcatgttt 780
agacttaaat aagcccccac ccaagtgtga ggggtccagt aatttttcaa aacatatgaa 840
agtgttaata catttygaca aaggaccatt aaaaaagtcc tgaattctga cttgagggag 900
gaaagtaatg actaatacat tctctagaga cttgcagact ttgggaattc ataaaggaat 960
ggatgataat tattaactgt tgctggctga ttgccagac agttctcaac agccctgtac 1020
aagtctctgg gtttgggatg gatcaattct gagactggaa aatggccaaa tctttgcaaa 1080
tgagaaatat ttttcttata agttcttatt gtaggcaaat aattacatag attattcatc 1140
agagaatttt taaatgtca taatctcaac tctttcattt acaacttgta tttccaatag 1200
tttatgggtc atctctgcat agatgtcaga agtcacctca agtttagygt gtccaaaatc 1260
taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
tgatccacca taatcaaaat aattaacatt tatccagtgc ctactatgta ctattccctg 1380
tctgttttta catttactca tttaaagtcc ataagaaaca ttaaacttca tctgccttct 1440
```

```

gaagaagata caaccatgct ctctttttaca aagtaggaaa ctgggtcaca gaaaggtgaa 1500
gtcttttaagg ctgaatcaca gtagctcatc ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctaccaagg 1620
cagaaaactt tttcatcctt ggctccttca ttctccctgt caccacagat cccctctaca 1680
tctagtcaga gaataggtcc tgtcaattcc aacttctcta tatggctcct ctcaggcatg 1740
tgcccttaat tggcctaatt ctctaataca ccttccctct acatgctcac tccctcagat 1800
cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcaacttcaact tccacactaa aatgtttttc ctgggggaac cacacttcc 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctgggtccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a 2011

```

<210> 505

<211> 1989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1917)

<223> n equals a,t,g, or c

<400> 505

```

gggtgaggggt cgcccggtgca cagcctgtcc cagccgtcct gtccctggctg ctgctctgctg 60
ttcgtctgctg cgccactatg ctctccctcc gtgtcccgtc cgcgcccatc acggaccgcg 120
agcagctgca gctctcgccg ctgaaggggc tcagcttggt cgacaaggag aacacgccgc 180
cggccctgag cgggaccgcg gtccctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcggtgga ggatgagccg ctgctgagag 300
aaaacccccg cgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcaga ggcttccttt tggaccgcg aggaggtgga cctctccaag gacattcagc 420
actgggaatc cctgaaaccc gaggagagat attttatatc ccatgttctg gctttctttg 480
cagcaagcga tggcatagta aatgaaaact tgggtggagcg atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaaggga tttctcttca 660
atgccattga aacgatgcct tgtgtcaaga agaaggcaga ctgggccttg cgctggattg 720
gggacaaaga ggctacctat ggtgaacgtg ttgtagcctt tgctgcagtg gaaggcattt 780
tcttttccgg ttcttttgcg tcgatattct ggctcaagaa acgaggactg atgcctggcc 840
tcacattttc taatgaactt attagcagag atgaggggtt acactgtgat tttgcttgcc 900
tgatgttcaa acacctggta cacaaacct cggaggagag agtaagagaa ataattatca 960
atgctgttcg gatagaacag gagttcctca ctgaggcctt gcctgtgaag ctcataggga 1020
tgaattgcac tctaataaag caatacattg agtttgtggc agacagactt atgctggaac 1080
tgggttttag caaggttttc agagtagaga acccatttga ctttatggag aatatttcac 1140
tggaaggaaa gactaacttc tttgagaaga gagtaggcga gtatcagagg atgggagtg 1200
tgtcaagtcc aacagagaat tcttttacct tggatgctga cttctaaatg aactgaagat 1260
gtgcccttac ttggctgatt ttttttttcc atctcataag aaaaatcagc tgaagtgtta 1320
ccaactagcc acaccatgaa ttgtccgtaa tgttcattaa cagcatcttt aaaactgtgt 1380
agctacctca caaccagtcc tgtctgttta tagtgctggc agtatcacct tttgccagaa 1440
ggcctggtg gctgtgactt accatagcag tgacaatggc agtcttggtt ttaaagtga 1500
gggtgaccct ttagtgagct tagcacagcg ggattaaaca gtcctttaac cagcacagcc 1560
agttaaaaga tgcagcctca ctgcttcaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaaacaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atttggtttc tacaccaa atattctcct gaccactaat gggagccaat tcacaattca 1740

```

```
ctaagtgact aaagtaagtt aaacttggt agactaagca tgtaatTTTT aagttttatt 1800
ttaatgaatt aaaatatTTTg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgttttTa tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
agggggcctt 1989
```

<210> 506

<211> 1085

<212> DNA

<213> Homo sapiens

<400> 506

```
gggcgtggcg ggcgtgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga cccaacgca gacactgaat 120
ggaatgacat cttacgcaa aagggtatct tccccccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
ctattgaaat gtacagacgg cggagactgg ctgagtggaa agcaactaaa ctgaagaata 360
aattyggaga agttttggag atctcaggga aggattatgt tcaagaagtt accaaagctg 420
gcgagggcct gtgggtcatc ttgcacctt acaaacaagg aattcccctc tgtgccctga 480
taaatacgca cctcagtggg cttgccagga agtttccctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcataccc aattatcctg ataggaatct gccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtccctctggg gtttgggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
aaaaccctaa gaagccgatt gaagacgtgt tgctgtcctc agtgcggcgc tctgtcctca 780
tgaagaggga cagcgattcc gagggtgact gaggtacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gattttttaa aaaaggaaaa agcaagaatg aatccttgtg 900
gttttttagtt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatTTTt ggaactcttt ttttttTaaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa 1085
```

<210> 507

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1485)

<223> n equals a,t,g, or c

<400> 507

```
cgccgccccgt gcctttcctc ttctctctyc tcctccttgg catccgcctc ttcttctctc 60
tgcgtcctcc cccgctgcct ccgctgctcc cgacgcggag cccggagccc gcgccgagcc 120
cctggcctcg cggtgccatg ctgccccggc ggccggcgtg aaggatggcg acgccgctgc 180
ctccgccctc cccgcggcac ctgccgctgc tgcggctgct gctctccggc ctgctcctcg 240
gcgccgccct gcgtggagcc gccgccggcc acccgatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaagggt gtctctctgg tgcacatgcc tgtgggccct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gccaggatg cgcgggcctc 420
caggcggggg cccgccccag cccagactgg aagatgagat tgacttctctg gccaggagc 480
ttgcccggaa ggagtctgga cactcaactc cgcctctacc caaggaccga cagcggctcc 540
cggagcctgc caccctgggc ttctcgcan gggggcaggg gctggakctg ggcctcccct 600
ccactccagg aacccccacg cccacgcccc acacctccct gggctcccct gtgtcatccg 660
accgggtgca catgtcgccc ctggagcccc ggggagggca aggcgacggc ctcgcccttg 720
tgctgatcct ggcgttctgt gtggccgggtg cagccgccct ctccgtagcc tccctctgct 780
gggtgcaggct gcagcgtgag atccgcctga ctcagaaggc cgactacgcc actgcgaagg 840
cccctggctc acctgcagct ccccgatct cgcctgggga ccagcggctg gcacagagcg 900
cggagatgta cactaccag caccaacggc aacagatgct gtgcctggag cggcataaaag 960
agccacccaa ggagctggac acggcctcct cggatgagga gaatgaggac ggagacttca 1020
cgggtgtacga gtgcccgggc ctggccccga ccggggaaat ggaggtgcg aaccctctgt 1080
tcgaccacgc cgcactgtcc gcgccctgc cggccccag ctccaccgct gcactgccat 1140
gacctggagg cagacagacg cccacctgct ccccgacctc gaggcccccg gggaggggca 1200
gggcctggag cttcccaacta aaaacatgtt ttgatgtgt gtgcttttgg ctgggcctyg 1260
ggctccaggc cctgggaccc cttgccaggg agacccccga acctttgtgc caggacacct 1320
cctggtcccc tgcacctctc ctgttyggt tagacccca aactggaggg ggcattggaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta aagteccattt 1440
cagacctgcg gaaaaaaaaa aaaaaaaaaa aaacnngggg ggggn 1485
```

<210> 508

<211> 1930

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 508

```
attttagtaa acttttagac aaaatttgtn aaaatgctga catcatttat aatccttcat 60
ttatttgtaa aaagatgagg acacacatta artgawgtca gcatttttag aaacttttag 120
acaaaatttg ttagggatcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
ctttttaaaag gtctagataa ttttgaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt ggtttgtaaa gctcagttcc actagtccat ggttttgtgc 300
aacttctgag cctcagtttt ctcttttgca aattaataat tacatacctt tatagatttt 360
gaaattaatt taaatattag tatttggtac atgaaggctt aatgttaagt ttcctttaat 420
```

```

gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gtaaaggact caaagtttaa gtaaaaagtg atactccacc 540
ttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatattca 600
ttggatttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttaa 660
atcttggatt atttgtgata gtaatcacia atttttggct aatttttaac ctgagggttt 720
gttttttttt taaaggaaat gcagcctagt cttgagaaca taattttata taatcaatta 780
ctaaatgtta aactattacc acacagccca taaaacagca tttgcgttta ttgagagaga 840
ggatgtgcca tcatgattaa tgaaaactat cttttgagtt tgaaaagaaa ttaatttgca 900
gtgtttggat tgtatatatg gtgctaaaaa taaattaatt tactttataa accttatctg 960
tacattatac gatgtgatga aatttgcttt ttatccaaat attttgtatc ttgtaaatat 1020
ggctaattat aggaatgcct ataatacatc ttagattcct tatatctaata aagagttcaa 1080
agagttatga gttgaagtct tgaatgcagg aaactatctg atagtgttct aaaatttggg 1140
tacttgggtt tggataccct tagtgggatg atgtaaatag aggctagcta cctaggcttg 1200
tctatagcaa ccataatgtt gatgtaagta atgcggttac tgaatcataa gaaaatgcca 1260
tctcttttta gttgaaggaa aactctggaa gtaggtgcca ttggtcattc tgcagtgcac 1320
tgcaaccatt gtttccctta gtgcccctct tcccctaggg cattgctctc ctattcccac 1380
gccttaacac agctctatac ctagaagcag ccagcccagg catgcagtca catttaatca 1440
catccccctt ctagagtgtc tcaaaatgat gtagtccctc aacttggcta aagaatctca 1500
atctcttgaa atttattttt ttaatgtcat attcatctgg taaatatcta ctgtttgcca 1560
ggcatttaag aatatggcaa agaacataaa agatgggtgtc accagatttt ggtcaccaat 1620
gagtacccga cccgttgcca tgattaagag agaatgcttt ctattggagt ttcaggaaat 1680
ataatttgag aatactttaa agggaagtgg aagtataagt gaatgatatt tttcttttac 1740
atgtaacaa tgaagtatt tcaaagttaa gttttaaaca aaatacatga agtagtgtct 1800
gccatacatg ttaatatctc acattcttgc ttccttaaat taatatgttt gtgtgtatat 1860
atgtgcctca cacctgaatt gaaaattaaa gactggttta aaagtgaaaa aaaaaaaaaa 1920
aaaaaaaaat 1930

```

<210> 509

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1064)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 509

```

gagccacgcc cgggctgtgg gaataagatg gcggggaaga agaatgttct gtcgtctctc 60
gcagtttacg cggaagattc agagcccgag tctgatggcg aggctggaat cgaggcgggtg 120
ggcagcgcgg ctgaggagaa aggcggattg gtatctgatg cctatgggga ggatgacttt 180
tctcgtctag ggggtgatga agatggttat gaagaagaag aagatgagaa cagtagacag 240
tcggaagatg acgattcaga gactgaaaaa cctgaggctg atgacccaaa ggataataca 300
gaagcagaaa agcgagaccc ccaggaactc gtggcctcct tttctgaaag agttcggaac 360
atgtcgcttg atgaaatcaa gatcccgcca gaaccccttg gcagatgttc aaatcacttg 420
caagacaaga tccagaagct ttatgaacga aagataaagg agggaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagttc 540
tgtgccattg acgagcttgg caccaactac ccaaaggata tgtttgatcc ccatggctgg 600
tctgaggact cctactatga ggcattagcc aaggcccaga aaattgagat ggacaaattg 660
gaaaaggcca aaaaggagcg aacaaaaatt gagtttgtga cgggcaccaa aaaaggcacc 720
acgaccaacg ccacgtccac caccactacc actgccagca cagctgttgc agatgctcag 780
aagagaaaga gcaagtggga ttcggctatc ccagtgaaca cgattagccc agcccacat 840
cctcaccacc acagccaccc tgccagctgt tgtcacggtc accaccagcg ccagncktc 900
aaggaccacc gtcattctctg ctgtggggca ccattgtgaa gaaggccaag cagtgcctg 960
aggggccacc ttagggaytt gaaaaggagc cgttgcagcc ccarttgacc actggccagt 1020
gggagggcgg ccatttttgt nttatttttc agggatttgg ggancattt tccccaggtt 1080
gccaacttn aggagggagt ttttntttt tgggcttttc caggttggga aggg 1134

```

<210> 510

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 510

```

ggcgaatggg gaaggatttg aagtcacctt tgggtgtttg gagtgatcag agctgtctgc 60
cctcttgggg agtgacagtg cccactctg ttaagtccca tgcctgcccc caactcagct 120
tcagccacaa tgatgtagcc tcttttctt tccatccaca gggcacctgg cctgggtgga 180
gcccactcct cagcaccac ctcacttctt gcagtattct gcagaccca gccctgtgcc 240
tgtgtcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
ctcaagattc cagtctgat tgctggactc gctgaagara gactacgcag gaaagcccca 360
gccacccatc aaatcagaga gaaggaatcc accttcttac gctatggcag gtaagaaagt 420
actcattgtc tatgcacacc aggaacccaa gtctttcaac ggatccttga agaattgtgc 480
tgtagatgaa ctgagcaggc agggctgcac cgtcacagtg tctgatttgt atgccatgaa 540
ctttgagccg agggccacag acaaagatat cactggtact ctttctaate ctgaggtttt 600
caattatgga gtggaaaccc acgaagccta caagcaaagg tctctggcta gcgacatcac 660
tgatgagcag aaaaagggtc gggaggctga cctagtata tttcagttcc cgtgtactg 720
gttcagcgtg ccggccatcc tgaagggtg gatggatagg gtgctgtgcc agggctttgc 780
ctttgacatc ccaggattct acgattccgg tttgctccag ggtaaactag cgctccttcc 840
cgtaaccacg ggaggcacgg ccgagatgta cacgaagaca ggagtcaatg gagattctcg 900
atacttctg tgggcactcc agcatggcac attacacttc tgtggattta aagtccttgc 960
ccctcagatc agctttgtct ctgaaattgc atccgaagaa gaaagaaagg ggatggtggc 1020
tgctgtgtcc cagaggctgc agaccatctg gaaggaagag cccatcccct gcacagccca 1080

```

ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc acactaggag 1140
gccagggcgc aggcaaagag aagatgggtgc tgtcatgaaa taaaattaca acatagctac 1200
ctggggatac ttttttcttt ctgttttttg tttgttttta attttagctt taaggagcac 1260
atggccagta ctgtttcagg ggaatattgg gtggcgctgg ggtttgggct tctattgac 1320
ccatcaccca aacagtgagc atagttccca atagatagtt tttcaacact tcctttcctc 1380
cc 1382

<210> 511

<211> 1741

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1710)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1717)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1720)

<223> n equals a,t,g, or c

<400> 511

aactatccaa gccacctatt ttatttgttc tttcatctgt gactgcttgc tgactttatc 60
ataattttct tcaaacaaaa aaatgtatag aaaaatcatg tctgtgastt cattttttaa 120
tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttctt atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaattgt ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtgggaatt ttctgtcatg gataatgtgc ttgagtccct 300
ataatctata gacatgtgat agcaaaagaa acaaacaaaa gccaggaaaa cactcatttt 360
cgccttgaat atgtaaattgg gattaatttt gtccctgtgcc ttatgtggaa aggaacttct 420
ttggttttcc tttttgttc tgggtggaagc atgtgcagga gacatatcat ccaaacataa 480
accattaaaa tgtttgtggg ttgcttgggt gtaattttca aagtagttaa ttgaggacaa 540
agggtaatgc agaagtgata gctttgggtt gctgagtcct gttttaagtg gccttgatat 600
ttaaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
atgctgcttt atttgcttct ccctcccaa ccacctcatg gtatatttaa gagtgaaagg 720
gacaaaactg taggtttgtc aagtttaata taaagcactg atgtaacttg ctaggtaaac 780

433

```
ggaaagataa gttctaactg cctactatcc matgtccagt taattggtgt cttccccct 840
catttgctct cttccctaaa atgtgtccca gatgccttca tttgctgttt tacttctatg 900
ttctgctttt cctcctctct tkgttccctt cckgtctatc cattgagttt atgaaatgga 960
agagttaact gcatgacta gtgtttgrag ggtgtgtgtg tttgtctttc taattaggtg 1020
tatagcctat tcacttccta gaataaatct cttamcctaa atttgagtag tctgcatttt 1080
ggcaactcct ctagcagctt ggtagcctag tacaggttgt ttttttaaaa aaggaaaagc 1140
aggaaggagg agtgaatttt attaacatgt ttgccaaatg tattgagatt tggcctctga 1200
agaacacttt ttcagtgtta agtttcttta ccttaagatt cagaaatact ttagaatatt 1260
attaatttta agtcctgtct ttacatcctt ttggaaaact tgtattacca tgagtttgga 1320
aaaaggacaa cgaaaggctt ttcattgtaa gataagatct ttagctatct ctaaccctgt 1380
ccttttttca ctgcattttt tctagttttg cttcattgct tatcattagg atagggtaag 1440
tgaagtttgc tatgctgcta gcatcctaag atgatacctt tgttgaaaga attgtgaata 1500
gcatgattca tttctagcag aggctgagtt taggacagca gcttccattg agaagtcttt 1560
ctgtgtcgtg aatagcattt taatgacctc ttggctcaca taagcaaaca acatagggac 1620
gtatctgcta tgaaaatcca caaatttttc agatagtgcc ctaaaaacaa ttttatatgc 1680
ctcactggtt gttagnctt aggttattan cacananggn gttattccgt ttaccgcccc 1740
c 1741
```

<210> 512

<211> 1530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<400> 512

```
gaagcggcgt cggcggctgg agcagaggca gcagccggac gagcagcggg ggcggtcggg 60
agcgtggtg aagatggcgg cggcgggagg cggaggcggc ggtggccgct actacggcgg 120
cggcagtggg ggcggccggg cccctaagcg gctcaagact gacaacgccg gcgaccagca 180
cggaggcggc ggcggtgggc gtggaggagc cggggcggcg ggcggcggcg gcggtgggga 240
gaactacgat gaccgcaca aaaccctgc ctcccagtt gtccacatca ggggcctgat 300
tgacggtgtg gtggaagcag acctgtgga ggccttgag gagtttgag ccatcagcta 360
tgtgtggta atgcctaaaa agagacaagc actggtggag tttgaagatg tgttgggggc 420
```



```
ttgcaacgca gtgaactacg cagccgacaa ccaaataac attgctggtc acccagcttt 480
tgtcaactac tctaccagcc agaagatctc ccgccctggg gactcggatg actcccggag 540
cgtgaacagt gtgcttctct ttaccatcct gaacccatt tattcgatca ccacggatgt 600
tctttacact atctgtaatc cttgtggccc tgtccagaga attgtcattt tcaggaagaa 660
tgagagttcag gcgatgggtg aatttgactc agttcaaagt gccagcggg ccaaggcctc 720
tctcaatggg gctgatatct attctggctg ttgcaactct aagatcgaat acgcaaagcc 780
tacacgcttg aatgtgttca agaatgatca ggatacttg gactacacaa accccaatct 840
cagtggacaa ggtaatcttg acgaccactt tgttctaaac ataccgcct tgctttcact 900
cgactagtgc acttaatagg cctgggctca ggggtatgta atgccattgg gcccccatg 960
gacatgggag ggccttgggg tcagcacttg gacaccctag tgggatggg gagtgagagg 1020
cctccatggg tcttcactgc tgcttggggc cctccgatgc tgctcaggat acagaggcaa 1080
ggcagaagcc tgagatgggc ggggagcagg gcctcactga ggatgaggcg tgggggcggc 1140
cttagaaacc agcagtggct cctttgagag tctggtgagg gtcactcact ccattcttgc 1200
tggaaccagga attgtcctct tgttctgcgc tgttgagagg gtctgatttg ggggagtgc 1260
agtgttgggg ggcgatgagg ctctgggct cttgcagtga gcctttgtga gcaagctgc 1320
ccttgaggag gtgagaacac tntggaatgg accaaggcgg acatgcttta aaataatttg 1380
tagaggggaa cgcaacatct tttgcaaggt gggcccaaat gggacaactt cctttcctaa 1440
gggntggca agaaatgggt tttggccttt tgggtaagca aggggaanaa ggttgggaag 1500
gaattgnnc taatgaagaa aacaagcggg 1530
```

<210> 513

<211> 2999

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2996)

<223> n equals a,t,g, or c

<400> 513

```
ttttttttta ttttttgggt tagcatttaa taggcacata atcaacattt actgttcaat 60
tgaaacaaaa ttaaaattgg gcgctgtctc tatctttatt tgtgatcggc cctaactgca 120
ctggcaatct tttccgtttt tttgttttct gttttccatt cgcattgccc ttagcgtacc 180
tggggctccg gtccttttac aaatgaaacc caaagtgtct cgaagcacag ccagcgaaag 240
ganaaactct gaaacggaca agatggctgc cactcttcg cgcctcttag tcccaccac 300
tcagggcgga ggtctgcgtc atgtgacct cccctcttg gctccgctcc taccgcagt 360
cttgacggga ggcggacggg gaacgaggcc gtcggcattt tgtgtctgct tcctgtggga 420
cgtggtggta gccgttgggt tgggaaagt agggattttt ggcctcgttt ctctgtcttc 480
ttttctcttc ccttttactt tgccggtaga acacagttat gggtcgcaag aagaagaagc 540
agctgaagcc gtgggtgctg tattgtaata gagattttga tgatgagaag atccttattc 600
```

```

agcaccaaaa agcaaagcat tttaaatgcc atatattgtca caagaaattg tatacaggac 660
ctggcttagc tattcattgc atgcaggtag ataaagaaac aatagatgcc gtaccaaatg 720
caatacctgg aagaacagac atagagttgg aaatatatgg tatggaagggt attccagaaa 780
aagacatgga tgaaagacga cgacttcttg aacagaaaac acaagaaagt caaaaaaaga 840
agcaacaaga tgattctgat gaatatgatg atgacgactc tgcagcctca acttcatttc 900
agccacagcc tgttcaacct cagcaagggt atattcctcc aatggcacag ccaggactgc 960
caccagtacc aggagcacca ggaatgcctc caggcatacc tccattaatg ccagggtgtc 1020
ctcctctgat gccaggaatg ccaccagtta tgccaggcat gccacctgga ttgcatcatc 1080
agagaaaata caccagtca ttttgcggtg aaaacataat gatgccaatg ggtggaatga 1140
tgccacctgg accaggaata ccacctctga tgccctggaat gccaccagggt atgccccac 1200
ctgttccacg tcctggaatt cctccaatga ctcaagcaca ggctgtttca gcgccaggta 1260
ttcttaatat accacctgca ccaacagcaa ctgtacctgc cccacagcct ccagttacta 1320
agcctctttt cccagtgct ggacaggtc aggcagctgt ccaaggacct gttggtacag 1380
atctcaaacc cttaaatagt acccctgcaa caactacaga acccccaaag cctacattcc 1440
ctgcttatac acagtctaca gcttcaacaa ctagtacaac aaatagtact gcagctaaac 1500
cagcggcttc aataacaagt aagcctgcta cacttacaac aactagtga accagtaagt 1560
tgatccatcc agatgaggat atatccctgg aagagagaag ggcacagtta cctaagtatc 1620
aacgtaatct tcctcgcca ggacaggccc ccacggtaaa tccaccagtt ggaccaatg 1680
gaggtatgat gccaccacag ccaggcatcc cacagcaaca aggaatgaga ccccaatgc 1740
cacctcatgg tcagtatggt ggtcatcatc aaggcatgcc aggatacctt cctggtgcta 1800
tgcccccgta tgggcaggga ccgccaatgg tgccccctta ccagggtggg cctcctcgac 1860
ctccgatggg aatgagacct cctgtaatgt cgcaaggtag ccgttactga tcttacttca 1920
tccagtctaa taggtttgga gattaaacct tttctcaact tgtgctgtt atatagccaa 1980
gcttccgtca ataaggcttc attgtgactt taacaaacat tatcttcca cataccagga 2040
actattggac atttatttta catgggaaaa attatttgga ataataaagc aggaactttt 2100
cctgaagtgt caatttatac tgtatggctt ctttttcatg tttcatctag gtttttagaa 2160
gtgaagtata gtaaatttg ttcgttaaatt tgtgaaggcg ctggaattac atgaacatac 2220
caccctagta aaggcaagt ctgtaagctt acattgctat ttgtaaagtt tgccttcaca 2280
gcatttcaga tgetgttgga cttcatgtcc ccaacctagc ttggtgagg ctgtaactgt 2340
ttccaagtac ttgtacattg gaagtctgaa tgtgtaacaa tatttaatgt atttagagtt 2400
cctcatgttg cagggtttaa gaaatctgac ccaccaagg ctgtgactt ttctgtactg 2460
ttaaacttca ttgtaataaa atgagagaaa aatttatgcc tttttattca taaccagct 2520
gtggaccact gcctgaaagg tttgtacaga tgcattgcc agtagatgtc cacataataa 2580
aattctagt taccaatgca gtttanatat atcatggat tctgtcttg agttgtaggt 2640
tatttcttag ctgcatgttt taaactgaat ttgcatagag ttgtatgtta atgtttcagt 2700
taagagaaaa acttaagata catgagtcac tacataatgg gtatgaaatc tttataatca 2760
cccttccacc ctctatgggt tcagtacaca tcacgtgtca tagatactta aaatgtaaat 2820
gttaacactt ttccttcctg ctgagatgtt tagagcctag tgccagacct attcatttcc 2880
ttttgattat ttttgagact cagtactagc ttcttgtgct gttaatgggt tattatatat 2940
tattctaagt gtaatgctga gaatctaaat gtgtctctgt tgggatgggt aacagntga 2999

```

<210> 514

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 514

```

ttgtcagat gatcagtcct tactgattat cttgctgctt aaaggcctgc tcaccaatct 60
ttctttcaca ccgtgtgggt cgtgttactg gtataccag tatgttctca ctgaagacat 120
ggactttata tgttcaagt caggaattgg aaagttggac ttgttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240

```

```

accatttctt ttcctctgaa gcggccatga cattcccttt ggcaactaac gtagaaactc 300
aacagaacat ttctctttcc tagagtcacc ttttagatga taatggacaa ctatagactt 360
gctcattgtt cagactgatt gccctcacc tgaatccact ctctgtattc atgctcttgg 420
caatttcttt gactttcttt taagggcaga agcatttttag ttaattgtag ataaagaata 480
gttttcttcc tcttctcctt gggccagtta ataattggtc catggctaca ctgcaacttc 540
cgtccagtgc tgtgatgccc atgacacctg caaaataagt tctgcctggg cattttgtag 600
atattaacag gtgaattccc gactcttttg gtttgaatga cagttctcat tccttctatg 660
gctgcaagta tgcatacgtg cttcccactt acctgatttg tctgtcgggt gccccatag 720
gaaaccctgc gtgtctgttg gcataatagt ttacaaatgg ttttttcagt cctatccaaa 780
tttattgaac caacaaaaat aattacttct gccctgagat aagcagatta agtttgttca 840
ttctctgctt tattctctcc atgtggcaac attctgtcag cctctttcat agtgtgcaaa 900
cattttatca ttctaaatgg tgactctctg cccttgacc catttattat tcacagatgg 960
ggagaaccta tctgcatgga cctctgtgga ccacagcgta cctgccccct tctgccccct 1020
tgctccagcc ccacttctga aagtatcagc tactgatcca gccactggat attttatatc 1080
ctcccttttc cttaagcaca atgtcagacc aaattgcttg tttctttttc ttggactact 1140
ttaatttgga tcctttgggt ttggagaaag ggaatgtgaa agctgtcatt acagacaaca 1200
ggtttcagt atgaggagga caacactgcc tttcaaaact tttactgatc tcttagattt 1260
taagaactct tgaattgtgt ggtatctaataaaaagggaag gtaagatgga taatcacttt 1320
ctcatttggg ttctgaattg gagactcagt ttttatgaga cacatctttt atgccatgta 1380
tagatcctcc cctgctattt ttggtttatt tttattgtta taaatgcitt ctttctttga 1440
ctcctcttct gcctgccttt ggggataggt tttttgttt gtttatttgc ttctctgtt 1500
ttgttttaag catcattttc ttatgtgagg tggggaagg aaaggtatga gggaaagaga 1560
gtctgagaat taaaatattt tagtataagc aattggctgt gatgctcaaa tccattgcat 1620
cctcttattg aatttgccaa tttgtaattt ttgcataata aagaaccaa ggtgtaatgt 1680
tttgttgaga ggtggttttag ggattttggc cctaaccaat acattgaatg tatgatgact 1740
atgtgggagg acacatttat gtaccagag gccccacta ataagtggta ctatggttac 1800
ttccttgtgt acatttctct taaaagtgat attatatctg tttgtatgag aaaccagta 1860
accaataaaa tgaccgcata ttctgacta aacgtagtaa ggaaaatgca cactttgttt 1920
ttacttttcc gtttcattct aaaggtagtt aagatgaaat ttatatgaaa gcatttttat 1980
cacaaaataa aaaaggtttg ccaagctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaa 2048

```

<210> 515

<211> 3300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 515

nngacccacg cgtccgcgga cgggtgggtcg agacccacgc gtccgccttta cagggaccca 60
gtctgccttc aagaaaagac agaagtagaa aggggtgggtg ctgactgtct gacaaattgt 120
tatcangtat gcaggaagta tatccttctc caaaatatca tacttgcatc accaggtaga 180
cacatttcct tctacacaga attatcttca gagcttctta aagcaaataa agcctgcttc 240
aaggactgag tccctagtcg aattcccggga aggagtggag cctgtcatat tgggtgaggt 300
ttgccttgaa tgtcatccca gtatttcaat attgattaat tagtcttccc tcatgggtccc 360
aactgcatag tttttatttt gttagtggt ctgacacatg gtaagggaca tgaaagtatc 420
ctttgagata atctttccat tcatcagtgt ttatctagca tctgctcaag agtgtgctgc 480
agtggagggg aatcagatga cctcccagtc tgggtgtggt acatacaatc atgtgtaaga 540
agtgccattc aagccgtgtc actggagggg actgacagtg agtgagtgtg gatagagagg 600
acctcctggg gtgggcaatg tgagccctca gactctgtag gtattgcatt ttgcagtga 660
cactggtaga catgttttgt ggctcaagcc agcatgtgtg tgatggttta ggattcaktg 720
acttttgatg atctggctgt ggacttcacc ccagaagaat ggactttact ggaccaact 780
cagagaaacc tctacagaga tgtgatgctg gagaactaca agaatttggc cacagtagga 840
tatcagctct tcaaaccag tctgatctct tggctggaac aagaagagtc taggacagt 900
cagagaggtg atttccaagc ttcagaatgg aaagtgaac ttaaaaccaa agagttagcc 960
cttcagcagg atgttttggg ggagccaacc tccagtggga ttcaaatgat aggaagccac 1020
aacggagggg aggtcagtga tgttaagcaa tgtggagatg tctccagtga acactcatgc 1080
cttaagacac atgtgagaac tcaaaatagt gagaacacat ttgagtgtta tctgtatgga 1140
gtagacttcc ttactctgca caagaaaacc tctactggag agcaacgttc tgtatttagt 1200
cagtgtggaa aagccttcag cctgaaccca gatgtgtgtt gccagagaac gtgcacagga 1260
gagaaagctt ttgattgcag tgactctggg aaatccttca ttaatcattc acaccttcag 1320
ggacatttaa gaactcaca tggagaaagt ctccatgaat ggaaggaatg tgggagaggc 1380
tttattcact ccacagacct tgctgtgctg atacaaactc acaggtcaga aaaaccctac 1440
aaatgtaagg aatgtggaaa aggatttaga tattctgcat accttaatat tcacatggga 1500
acccaactg gagacaatcc ctatgagtgt aaggagtgtg ggaaagcctt caccaggtct 1560
tgtcaactta ctcagcacag aaaaactcac actggagaga aaccttataa atgtaaggat 1620
tgtgggagag ccttccactgt ttccctcttg ttaagtcaac atatgaaaat ccatgtgggt 1680
gagaagcctt atgaatgcaa ggaatgtggg atagccttca ctgatcttc tcaacttact 1740
gaacatttaa aaactcacac tgcaaaggat ccctttgaat gtaagatatg tggaaaatcc 1800
tttagaaatt cctcatgcct cagtgatcac ttctgaattc acactggaat aaaaccctat 1860
aaatgtaagg attgtgggaa agccttcact cagaactcag acctactaa gcatgcacga 1920
actcacagtg gagagaggcc ctatgaatgt aaggaaatgt gaaaggcctt tgccagatcc 1980
tctgcctta gtgaacatac aagaactcac actggagaga agccttttga atgtgtcaaa 2040
tgtgggaaag cctttgctat ttcttcaaat cttagtggac atttgagaat tcacactgga 2100
gagaagccct ttgagtgcct ggaatgtggg aaagcattta cgcattcctc cagtcttaat 2160
aatcacatgc ggacccacag cgccaaaaaa ccattcacgt gtatggaatg tggcaaagcc 2220
tttaagtttc ccacgtgtgt taaccttcac atgcggatcc acactggaga aaaaccctac 2280
aaatgtwaac agtgtgggaa atccttcagt tactccaatt cgtttcagtt acatgaacga 2340
actcacactg gagagaaacc ctatgaatgt aaggagtgcg ggaaagcctt cagttcttcc 2400
agttcctttc gaaatcatga aagaaggcat gcggatgaga gactgtcagc ataaggaatg 2460
tgggaaaacc taaagggtgt cctgttctct ctgaagacat gaaaactcac tggggagaaa 2520
ccctatgaat gtaaaaatgt ggaagcaact ttgtatctca ggtcttaatg aacacatatg 2580
aattcacagt ggagaagacc ctgcatcagg gaatgtggaa atgactttgc tgaattctca 2640
agccttacca aacacatcag aaatctcact ggagagaaac ygtatgaatg tagagaatct 2700
gggaatacct ttctgaatcc caciaacett aatgtgtgta tgtgaactca cattggagag 2760
aaaccctgca atttaaatgg tatggctctg atgatgcccc actccatatt tgtaagccct 2820
aagtcctagt tccttacact ataactgtat ttggacatag ggttttcaaa caggtgagta 2880
acttcaaatg aggttggtgg gtctgatccc taatctgaca tcaactggtg ccctataagg 2940

```

gaaactgaag gaaggatata catggagaag actgtgtgga tccaccagaa gatggccatc 3000
tacaagccaa ggacagagac ctggaacaga tgctttcatt atggcctcca gaggaacca 3060
accctgtctc caccttgata ttgcacttcc aggctccaga actgtgaggc aataaatttc 3120
tcttggttaa atcattcagt ctgttatttt gtacagcaac cctaggaac taatactgtg 3180
aggaacttgg gaaaagcttt agatcaagct tgtccaaccc gcaggccagg atggcttga 3240
atgcagacca acacaaattt ttaagctttc ttcaaacata ataaawtttt tttgtgatta 3300

```

<210> 516

<211> 3425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 516

```

gggaagtccc cgaggcgcac agagcaagcc cacgcgaggg cacctctgga ggggagcgcc 60
tgcaggacct tgtaaagtca aaaatgtcag aaacttccag gaccgccttt ggaggcagaa 120
gagcagttcc acccaataac tctaattgcag cggaagatga cctgccaca gtggagcttc 180
agggcggtgt gccccggggc gtcaacctgc aagatgatgc tgtgtatctg gacaatgaga 240
aagaaagaga agagtatgtc ctgaatgaca tcggggtaat tttttatgga gaggtcaatg 300
acatcaagac cagaagctgg agctatggtc agtttgaaga tggcatcctg gacacttgcc 360
tgtatgtgat ggacagagca caaatggacc tctctggaag anggaatccc atcaaagtca 420
gccgtgtggg gtctgcaatg gtgaatgcca aagatgacga aggtgtcctc gttggatcct 480
gggacaatat ctatgcctat ggcgtcccc catcgccctg gactggaagc gttgacattc 540
tattggaata ccggagctct gagaatccag tccggtatgg ccaatgctgg gtttttgcctg 600
gtgtctttta cacattttta cgatgccttg gaataccagc aagaattgtt accaattatt 660
tctctgcccc tgataatgat gccaatttgc aaatggacat cttcctggaa gaagatggga 720
acgtgaattc caaactcacc aaggattcag tgtggaacta ccaactgctg aatgaagcat 780
ggatgacaag gctgacctt cctgttggat ttggaggctg gcaagctgtg gacagcaccc 840
cccaggaaaa tagcgatggc atgtatcggg gtggccccgc ctcggttcaa gccatcaagc 900
acggccatgt ctgcttccaa tttgatgcac cttttgtttt tgcagaggtc aacagcgacc 960
tcatttacat tacagctaag aaagatggca ctcatgtggt ggaaaatgtg gatgccaccc 1020
acattgggaa attaattgtg accaaacaaa ttggaggaga tggcatgatg gatattactg 1080
atacttacia atttcaagaa ggtcaagaag aagagagatt ggccctagaa actgccctga 1140
tgtacggagc taaaaagccc ctcaacacag aaggtgtcat gaaatcaagg tccaacgttg 1200
acatggactt tgaagtggaa aatgctgtgc tgggaaaaga cttcaagctc tccatcacct 1260
tccggaacaa cagccacaac cgttacacca tcacagctta tctctcagcc aacatcacct 1320
tctacaccgg ggtccygaag gcagaattca agaaggagac gttcgacgtg acgctggagc 1380
ccttgtcctt caagaaagag gcggtgctga tccaagccgg cgagtacatg ggtcagctgc 1440
tggaacaagc gtccctgcac ttctttgtca cagctcgcat caatgagacc agggatgttc 1500
tggccaagca aaagtccacc gtgctaacca tccctgagat catcatcaag gtccgtggca 1560
ctcaggtagt tggttctgac atgactgtga cagttgagtt tacciaatcct ttaaaagaaa 1620
ccctgcgaaa tgtctgggta cacctggatg gtccctggagt aacaagacca atgaagaaga 1680
tgttccgtga aatccggccc aactccaccg tgcagtggga agaagtgtgc cgccctggg 1740
tctctgggca tcggaagctg atagccagca tgagcagtga ctccctgaga catgtgtatg 1800
gcgagctgga cgtgcagatt caaagacgac cttccatgtg aatgcacagg aagctgagat 1860
gaacctggc atttggcctc ttgtagtctt ggctaaggaa attctaacgc aaaaatagct 1920
cttgctttga cttaggtgtg aagaccaga caggactgca gagggcycca gagtggagat 1980

```

```
cccacatatt tcaaaaacat gcttttccaa acccaggeta ttcggcaagg aagttagttt 2040
ttaatctctc caccttccaa agagtgttaa gcattagctt taattaagct ctcatagctc 2100
ataagagtaa cagtcacatc ttatcatcac aaatggctac atctccaaat atcagtgggc 2160
tctcttacca gggagatttg ctcaatacct ggctcattt aaaacaagac ttcagattcc 2220
ccactcagcc ttttgggaat aatagcacat gatttgggct ctagaattcc agtccccctt 2280
ctcggggtca ggttctaccc tccatgtgag aatatttttc ccaggactag agcacaacat 2340
aatttttatt tttggcaaag ccagaaaaag atctttcatt ttgcacctgc agccaagcaa 2400
atgcctgcca aatttttagat ttacctgtt agaagagggtg gccccatatt aacaaattgc 2460
atttgtggga aacttaacca cctacaagga gataagaaag caggtgcaac actcaagtct 2520
attgaataat gtagttttgt gatgcatttt atagaatgtg tcacactgtg gcctgatcag 2580
caggagccaa tatcccttac tttaacctt tctgggatgc aatactagga agtaaagtga 2640
agaatttatc tctttagtta gtgattatat ttcacctatc tctcaggaat catctccttt 2700
gcagaatgat gcaggttcag gtcccccttc agagatataa taagcccaac aagttgaaga 2760
agctggcgga tctagtacc agatatatag aaggactgca gccactgatt ctctcttctc 2820
cttcacatca cccatgttga gacctcagct tggcactcag gtgctgaagg gtaatatgga 2880
ctcagccttg caaatagcca gtgctagtgc tgaccaacc acagaggatg ctgacatcat 2940
ttgtattatg ttccaaggct actacagaga aggctgcctg ctatgtattt gcaaggctga 3000
tttatggtca gaatttcctt ctgatatgtc taggggtgtga tttagggtcag tagactgtga 3060
ttcttagcaa aaaatgaaca gtgataagta tactgggggc aaaatcagaa tggaatgctc 3120
tggtctatat aaccacattt ctaagccttt gagactgttc ctgagccttc agcactaacc 3180
tatgagggtg agctggtccc ctctatatat acatcatact taactttact aagtaatctc 3240
acagcatttg ccaagtctcc caatatccaa ttttaaaatg aaatgcattt tgctagacag 3300
ttaaactggc ttaacttagt atattattat taattacaat gtaatagaag cttaaaataa 3360
agttaaactg atttatattg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 3420
ggggc 3425
```

<210> 517

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1356)

<223> n equals a,t,g, or c

<400> 517

```
tcgacccacg cgtccggacc cacgcgtccg agtcaacatc aggctactga agttgaggct 60
ttagggtaac tttctatat tgagcccatg ggttacaagg atttgcaata tattgttcca 120
tttacagcca atacaggttt aatcgatgtt caatattggt ttaggaaatt taaggccttc 180
taaatacata tagctctttc atgtctaaaa ccattttatg atattgccaa aatgtgatag 240
gaaacctact cattaaattg ttaaactttt taatgactat gtgaagatat gaattgtttc 300
ctgaagataa tactcttaat tgagttgtat tgtacttctt aggcaaagca gtgtaaaact 360
gtatcaatta aggcttgtga gtagtgattt ccactggggc atcagagtct tggtgggct 420
gaatctgctg cttgttgggt cagtgtttct tatgaacaag agccacagta cagagcttca 480
agttatttaa aatactaagt catcttacgt ttccatttta ttaacgggat gttgcaatcg 540
```

```

tttgtaaact aataaactta taaagtgatt ggcacaaaga ctccttgagc aaaagctgtg 600
cagttaagta caaaaagata cttaatttgg agactcttac agtaattttt gccatgtcaa 660
aacaatggct tttacattga aagattaata gaaactctac atatgttaat ttttttatag 720
aacctgactc aaatcaaggt actctccatt ttattgcctt acctgaatca gtcctttttg 780
gttggttaata gattttttta tacacccacg tttgatttaa aagtaaattc tagttcttaa 840
gcacttttaa caagaaatcc agaagcacat ttttctgcac aaacaagtta caaagttcaa 900
aagtgtttct tgtgcattag ctttgagatt cagtttttaa ctttgtaaac cacatctgag 960
agacttgtca tttctacatt gtgtgtgttt aatttctttt gattccattt tggtaaagag 1020
agcagtaaat agattttctg gtattcttgt tcacttgatt acatttgtat aaagttctga 1080
ttgccagttg ctacagataac aagtgcacag gcagaattct tttaatcagt aaagttcctt 1140
aagcctaagg ctaaaatcttg aatacattgt tgaattcttt aatatcctga tggcaagcag 1200
actgatagct gcacatttgg catgctttgt ttaatggatt ttatttttaa ttgcagattt 1260
atttggaat gtacagtaaa ttttgtaaac ttgcatcaag tttatgaata aagaaccatt 1320
taaaaaaaaa aaaaaaaaaa aaaagnagga aagaanag 1358

```

<210> 518

<211> 1368

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<400> 518

```

gcggattgca acacatgcag ctgcctggag agagggagcc ggtgtcctac gtcagagccg 60
ccgccgccgc ggagccgccg ccggggagga gcagccgctg ccgccagga ctgggccctt 120
agggaggagg aggcgagaag atggcgagc accccagtgc tgccgacagg aacgtggaga 180
tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300

```

```

atgagtttgg aactgcatct aacattaagt cacgagtaaa ccgcctttca gtcctgggag 360
ccattacatc tgtacaacaa agactcaaac tttataacaa agtacctcca aatggctctgg 420
ttgtatactg tggaacaatt gtaacagaag aaggaaagga aaagaaagtc aacattgact 480
ttgaaccttt caaaccaatt aatacgtcac tgtattttgtg tgacaacaaa ttccatacag 540
aggctcttac agcactactt tcagatgata gcaagtttgg attcattgta atagatggta 600
gtggtgcact ttttggcaca ctccaaggaa acacaagaga agtcctgcac aaattcactg 660
tggtatctccc aaagaaacac ggtagaggag gtcagtcagc cttgcgtttt gcccgtttaa 720
gaatggaaaa gcgacataac tatgttcgga aagtagcaga gactgctgtg cagctgttta 780
tttctgggga caaagtgaat gtggctggct tagtttttagc tggatccgct gactttaaaa 840
ctgaactaag tcaatctgat atgtttgatc agagggttaca atcaaaaagtt ttaaaattag 900
ttgatataat ctatggtggt gaaaatggat tcaaccaagc tattgagtta tctactgaag 960
tcctctccaa cgtgaaattc attcaagaga agaaattaat aggacgatac tttgatgaaa 1020
tcagccagga cacgggcaag tactgttttg gcgttgaaaga tacactaaag gctttggaaa 1080
tggtgagctgt agaaattcta atagtctatg aaaatctgga tataatgaga tatgttcttc 1140
attgccaagg cacagaagag gagaaaattc tctatctaac tccagagcaa gaaaaggata 1200
aatctcattt cacagacaaa gaganccgga caggaaccat gascttatcg agagcatgsc 1260
cctktttgga awggkttgst aacaactwta aaaaattggg acttccttgg naaattggcc 1320
caattaattc ccnanaaagg ggtcaanttt ggaaaagaat tgggggaa 1368

```

<210> 519

<211> 933

<212> DNA

<213> Homo sapiens

<400> 519

```

ccacgcgtcc gcggaacgct gggcggacgc gtgggtggca ggatcagatt ttattaagac 60
ctctactgga aaagaaacag taaatgccac cttcccggta gctatagtaa tgctgcgggc 120
cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
ccgcagtgca aaggattccc ttgcttggct ctctcttgta aaggaggagc ttggagatga 240
gtggctgaag ccagaactct ttcgaatagg tgccagtact ctgctctcgg acattgagag 300
gcagatttac catcatgtga ctggaagata tgcagcttat catgatcttc caatgtctta 360
aatcagtcac cagttccaga aaagttcttt acgacaatgt ttaaaaatta ttttctacg 420
taattgctaa aattatttaa ttaaaaaatt gggcagtagg taactggcat tcctctcttt 480
aaaatttcta ccgaacttaa tggaaatgga aaagcaaact catccacatg tggactcat 540
ttcaggcaca tctgaaatga tcttaattac tagaagatct gcactattaa ctttgtgaag 600
agtttctcct aaaaacttta agtaaaatgt taatggtagc tttgataaca tcaaattcta 660
agggagaaaa aaacaatatt aaaccgcca agcagtgtgc cctagcagag gaaaatgcaa 720
catctcgcaa gcgtgctgt aacgacttca ggagtcactg attcagcact aatttcctgc 780
tgtgaaaact catctttcat ttttgccgtg gataggcgct tttattaatt gttgtcctaa 840
tgaaatttct gacattgtca tatacaacga tgaatatcat taaaattttt aaaataaaaa 900
aaaaaaaaaa aaaaaactcg agggggggcc cgg 933

```

<210> 520

<211> 1430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1428)

<223> n equals a,t,g, or c

<400> 520

```
gcggacgcgt gggcggacgc gtgggaggac gcgtgggttt cacagccaaa gtgtgggatg 60
ctgtctcagg agatgaattg atgaccctgg ctcataaaca catnntcaag actgtggatt 120
tcacgcagga tagtaattat ttgttaaccg ggggacagga taaactgtta cgcataatag 180
acttgaacaa acctgaagca gaacctaaag aaattagtgg tcatacttct ggtataaaaa 240
aagctctgtg gtgcagtgag gataaacaga ttctttctgc tgatgacaaa actgttcgac 300
tttgggatga tgctactatg acagaagtga aatctctaaa ttttaatatg tctgttagta 360
gtatggaata tattcctgag ggagagattt tgggtataac ttatggacga tctattgctt 420
ttcatagtgc agtaagtttg gacccaatta aatcctttga agctcctgca accatcaatt 480
ctgcatctct tcaccttgag aaagaatttc ttgttgaggc cggatgaagat tttaaacttt 540
ataagtatga ttataatagt ggagaagaat tagaatccta caagggacac tttggctcta 600
ttcactgtgt gagatttagt cctgatggag aactctatgc cagtgggttca gaagatggaa 660
cattgagact atggcaaact gtggtaggaa aaacgtatgg cctttggaaa tgtgtgcttc 720
ctgaagaaga tagtggtgag ctggcaaagc caaagattgg ttttccagag acaacagaag 780
aggagctaga agaaattgct tcagagaatt cagattgcat ctttccttca gctcctgatg 840
ttaaggcctg agcgtcaatc atatgttgca gttagtatac aactgactaa aacaagcaag 900
cagagaaaag catcagcctt ccagagttac tgtctgctta aggcagaaac agcagtaaat 960
aatgaggaaa atgaattagc tccagtgtct gaacaactaa ctaacttggg gttacctgta 1020
agtgaaaact caagtgtcag atgaaggagg gtggagttat cctcttatag tacagtggcc 1080
tggtatcttt ttaatgaata tatacaagcc aacatccaat ttctattatt acaattaggg 1140
ttcttgtagc tgtttatgtt aatatggaga agaaaactat attggctgat tttttctgat 1200
cttaagcag aatgcctttt ctttttttgc ttcagttgta aagaagaggg aatacatgat 1260
aaagtaactg gtttgatttc tggttcattg tacactgcct ctgaacatct aattgttttt 1320
agttgtctaa ataaaatgcc tctaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa 1430
```

<210> 521

<211> 1169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<400> 521

```
gccccacgcgt cgcgccacgm gyccgcgtgg agttgtgaac gccgcggact ccggagccgc 60
acaaaccagg gctcgccatg aagccaggat tcagtcctcg tgggggtggc tttggcgcc 120
gagggggcctt tggtgaccgt ggtggtcgtg gagggcgagg gggctttggc gggggccgag 180
gtcgaggcgg aggcctttaga ggtcgtggac gaggaggagg tggaggcggc ggcggcggtg 240
gaggaggagg aagagggtgt ggaggcttcc attctggtgg caaccggggt cgtggtcggg 300
gaggaaaaag aggaaaccag tcggggaaga atgtgatggt ggagccgcat cggcatgagg 360
gtgtcttcat ttgtcgagga aaggaagatg cactggtcac caagaacctg gtccctgggg 420
aatcagttta tggagagaag agagtctcga tttcggaagg agatgacaaa attgagtacc 480
gagcctggaa ccccttccgc tccaagctag cagcagcaat cctgggtggg gtggaccaga 540
tccacatcaa accggggggt aaggttctct acctcggggc tgcctcgggc accacggtct 600
cccattgtctc tgacatcggt ggtccggatg gtctagtcta tgcagtcgag ttctcccacc 660
gctctggccg tgacctcatt aacttgcca agaagaggac caacatcatt cctgtgatcg 720
aggatgctcg acaccacac aaataccgca tgctcatcgc aatggtggat gtgatctttg 780
ctgatgtggc ccagccagac cagaccgga ttgtggccct gaatgccac accttcctgc 840
gtaatggagg acactttgtg atttccatta aggccaactg cattgactcc acagcctcag 900
ccgaggccgt gtttgccctc gaagtgaaga agatgcaaca ggagaacatg aagccgcagg 960
agcagttgac ccttgagcca tatgaaagag accatgccgt ggtcgtggga gtgtacaggc 1020
cacccccacaa ggtgaagaac tgaagttcag cgctgtcagg attgagagag atgtgtgttg 1080
atactgttgc acgtgtgttt ttctattaaa agactcatcc gtcaaaaaaa aaaaaaaaaa 1140
arggggggccc gctaggggnt ccaagntta 1169
```

<210> 522

<211> 2162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2139)

<223> n equals a,t,g, or c

<400> 522

```
gccgggcgcg gagaagtcgg ggcggggcggc agagaggccg ggacgcggac cgggcccggg 60
cgcccacagc cgcccagacg cgcccagaga gcgcgcgccc cgcagccccg cgcctagccc 120
```

gccgggcatg gggcgcgcg gaggccgctga agccccgggc tggccccggnc gcacccgggc 180
ggaggcgag ggcagagcgc gcgcccagtt gcccgggcac caaatcgag cgcggcgtgc 240
gggaggggcc agagcaggac tggaaatgtc ctggccgccc cgctcctgc tcagatacct 300
gttccccggc ctccctgcttc acgggctggg agagggttct gccctccttc atccagacag 360
caggtctcat cctaggtcct tagagaaaag tgcctggagg gcttttaagg agtcacagtgc 420
ccatcacatg ctcaaaccatc tccacaatgg tgcaaggatc acagtgcaga tgccacctac 480
aatcgagggc cactgggtct ccacaggctg tgaagtaagg tcaggccccag agttcatcac 540
aaggtcctac agattctacc acaataaac cttcaaggcc taccaatttt attatggcag 600
caaccgggtc acaaatccca cttatactct catcatccgg ggcaagatcc gcctccgcca 660
ggcctcctgg atcatccgag ggggcacgga agccgactac cagctgcaca acgtccaggt 720
gatctgccac acagaggcgg tggccgagaa gctcggccag caggtgaacc gcacatgccc 780
gggcttcctc gcagacgggg gtccctgggt gcaggacgtg gcctatgacc tctggcgaga 840
ggagaacggc tgtgagtga ccaaggccgt gaactttgcc atgcatgaac ttcagctcat 900
ccgggtggag aagcagtacc ttcaccacaa cctcgaccac ctggtcgagg agctcttcc 960
tggtgacatt cactctgatg ccacccagag gatgttctac cgccctcca gttaccagcc 1020
ccctctgcag aatgccaaga accacgacca tgcctgcatc gcctgtsaga tcatctatcg 1080
gtcagacgag caccaccctc ccactctgcc cccaaaggca gacctgacca tcggcctgca 1140
cggggagtg gtgagccagc gctgtgaggt gcgccccgaa gtccctcttc tcaccgcca 1200
cttcatcttc catgacaaca acaacacctg ggagggccac tactaccact actcagaccc 1260
ggtgtgcaag caccaccact tctccatcta cgcccggggc cgctacagcc gcggcgctct 1320
ctcgtccagg gtcattggag gcaccgagtt cgtgttcaaa gtgaatcaca tgaaggtcac 1380
ccccatggat gcggccacag cctcactgct caacgtcttc aacgggaatg agtgcggggc 1440
cgagggtccc tggcaggtgg gcatccagca ggatgtgacc cacaccaatg gctgcgtggc 1500
cctgggcatc aaactacctc acacggagta cgagatcttc aaaatggaac aggatgccc 1560
ggggcgctat ctgctgttca acggtcagag gcccgcgac gggccagcc cagacaggcc 1620
agagaagaga gccacgtcct accagatgcc cttggtccag tgtgcctcct cttcgccgag 1680
ggcagaggac ctygcagaag acagtggaag cagcctgtat ggccggggccc ctgggaggca 1740
cacctggctc ctgctgctgg ctgcacttgc ctgycttgc cctctgctgc attggaacat 1800
ccgcagatag aagttttaga aagttctatt ttccaaacc aggattcctt actattgaca 1860
gatttkcttt accaaaagaa aagacattta ttctttgat gcacttgaat gccagagaac 1920
tgtcctctct tttctcctct cctccctcc cagcccctga gtcattgaaca gcaaggagtgc 1980
tttgaagttt ctgctttgaa ctccgtccag cctgatccct ggccctgagca acttcacaac 2040
agtaattgca ctttaagaca gcctagagtt ctggacgagc gtgtttggta gcagggatga 2100
aagctaccww attttttctt cttrattatt tgnacnaant tgagtagaag ttatttcctt 2160
tt

<210> 523

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<400> 523

```
tctctctccc tctcttcctt cccctgccc caaaactaaa gtaaaataac gttactgcc 60
cgtttttctg taaccagcag accttatcta tactcccaat tccaattcct tgtaaacata 120
ctttgtaaag tcctgtaaga tcctgtctcc tttgccatga cgctgcaagg tcataaagta 180
gataaaacct aagttgcaat tccggttttc ctcaagatct aagacatgtt acaaattggt 240
aattgccttt gtttctcgct ttggtaacat ctcccgccct caggattttc ccgccttgaa 300
gagtttaaaa ggcaatccta taatctaact ctggctaccc attctggacc ccctccatgc 360
tttggaagct ttgtactttc actctgctca ataaagcctr cagctttttc tcactctcag 420
tccatgtctc tttcactcac tgnngtcagc ttccacacca tttctttggg gtggcttggc 480
aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaaag 540
ccatcaagct acaaatratc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
accgaggacc cctggwtcaa cccgctggtc cctcaattac cctagaaaaat tccccctctg 660
aggacaccaa actgcagggc cccttyttca cccctaacca gcaggaagta gccagaacgg 720
actgccacam ggttcccaac agcarttkgg ggtgtccngt tttagaggca ggatttagag 780
gaggtgcccc attgggttt 799
```

<210> 524

<211> 1722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 524

```
ttccacgcgt ttnagagaag ggaactccca cagcanaggn cataaaaacca tccagggcag 60
tctggggcgg ctcagttctg cggtgccagg gagtgagca gagctcagcc ccgtcccaaa 120
yacagatggg accatgaact cgggacacag cttcagccag accccctcgg cctccttcca 180
tggcgcggga ggtggtctgg gcccggcccag gagcttcccc agggctccca ccgtccatgg 240
cgggtgcggg ggagcccgc tctccctgtc cttcaccacg cggagctgcc cccccctgg 300
agggtcttgg ggttctggaa gaagcagccc cctactagge ggaaatggga aggccaccat 360
gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgccc tggaggaggc 420
caacatgaag ctggaaagcc gcatcctgaa atggcaccag cagagagatc ctggcagtaa 480
gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtgatgg 540
taagatgacc aatgctcaga ttattcttct cattgacaat gccaggatgg cagtggatga 600
yttcaacctc aagtwtgaaa atgaacactc ctttaaaaaa gacttggaat ttgaagtcsa 660
gggcctccga aggaccttag acaacctgac cattgtcaca acagacctag aacaggaggt 720
ggaaggaatg aggaaagagc tcattctcat gaagaagcac catgagcagg aaatggagaa 780
gcatcatgtg ccaagtgact tcaatgtcaa tgtgaagggt gatacagggt ccagggaaga 840
```

```

tctgattaag gtcctggagg atatgagaca agaatatgag cttataataa agaagaagca 900
tcgagacttg gacacttggt ataaagaaca gtctgcagcc atgtcccagg aggcagccag 960
tccagccact gtgcagagca gacaagggtga catccacgaa ctgaagcgca cattccaggc 1020
cctggagatt gacctgcagr cacagtacag cacgaaatct gctttggaaa acatgttata 1080
cgagacccag tctcgktact cctgcaagct ccaggacatg caagagatca tctcccacta 1140
tgaggaggaa ctgacgcagc tacgccayga actggagcgg cagaacaatg aataccaagt 1200
gctgctgggc atcaaaaccc acctggagaa ggaaatcacc acgtaccgac ggctcctgga 1260
gggagagagt gaagggacac gggaagaatc aaagtgcagc atgaaagtgt ctgcaactcc 1320
aaagatcaag gccataaccc aggagaccat caacggaaga ttagttcttt gtcaagtga 1380
tgaaatccaa aagcacgcat gagaccaatg aaagtttccg cctgttgtaa aatctatatt 1440
cccccaagga aagtccttgc acagacacca gtgagtgagt tctaaaagat acccttgga 1500
ttatcagact cagaaacttt tatttttttt ttctgtaaca gtctcaccag acttctcata 1560
atgctcttaa tatattgcac ttttctaate aaagtgcgag tttatgaggg taaagctcta 1620
ctttcctact gcagccttca gattctcatc attttgcac tattttgtag ccaataaaac 1680
tccgcactag caaaaaaaaa aaaaaaaaaa aaaaagtctg ac 1722

```

<210> 525

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 525

```

tcccgggccc gagggcatca gacggcggct gattagctcc ggtttgcatc acccggaccg 60
ggggattagc tccggtttgc atcaccggga ccgggggatt agctccggtt tgcatacccc 120
ggaccggggg ccgggcgcgc acgagactcg cagcggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gacccgggca gggctggagc tgggctggga tcccagctc ggcagcagcg 240
cagcgggccc gccacctgc tggtgccctg gargctctga gcccggcgg cgcccgggcc 300
cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcggttgga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtgggccccca gccagactg cccccctgcc tgttgccct gagccacct 480
actgctccag atcgtgcaac tgctgtggsc actgnetccc gtyttnggsc ctatgtccty 540
ctkgaagccc gaagaanggc gg 562

```

<210> 526

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<400> 526

```
aaagtataa cncaactaat ggttgtggac ttgaatctyc aggaaatact gttacacctg 60
taaagttaa tgaagttaaa cccataaaca aagggtgaaga acaaattggg tttgagctag 120
tggagaaatt atttcaaggt cagctgggtat taaggacgag ttgcttgga tgtgaaagtt 180
taacagaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagttct gaaattttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcacaattt gcttcagtag aaaggattgt aggagaagat aaatatttct 360
gtgaaaactg ccatcattat actgaagctg aacgaagtct tttgtttgac aaaatgcctg 420
aagttataac tattcatttg aagtgtcttg ctgctagtgg tttggagttt gattgttatg 480
gtgggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tcactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttgtg atgcatagtg 600
gcattacaat tagtagtggg cattacactg cttctgttaa agtcactgac cttacagtt 660
tagaactaga taaaggaaat tttgtggttg accaaatgtg tgaaataggt aagccagaac 720
cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
ttagagttgg tggaaataca cagccaagta aagttttgaa caaaaaaat gtagaagcta 840
ttggacttct tggaggacaa aagagcaaag cagattatga gctatacaac aaagcctcta 900
atcctgataa ggttgctagt acagcgtttg ctgaaaatag aaattctgag actagtata 960
ctactgggac ccatgaatct gatagaaaca aggaatccag tgaccaaaca ggcattaata 1020
ttagtggatt tgagaacaaa atttcatacg tagtgcaag cttaaaggag tatgagggga 1080
agtggttgct ttttgatgat tctgaagtca aagttactga agagaaggac tttctgaatt 1140
ctctttcccc ttctacatct cctacttcta ctcttactt gctattttat aagaaattat 1200
agagtgagtg tatttttcct gtgtatata taaacacacc catacaaaaca ttggtaaaagt 1260
tgattacatc aaagaatctt tagcttatct tttgaagcta ctggatatta ttggtctctc 1320
taggttttta tataaatagt gaaatytgaa ttactgaaaa ccatgttaat ttttagaact 1380
cattttcctc agtagagact agtgatgcat tagcttctgg gaacaaactt gtatcggttc 1440
ttaattaaat tatccaaaac ggaggcattt aaacacttgg atttacacca gtcttttgtg 1500
tttgcttttt aaaataaagt gctcgtattt gtattctcca tattttggag taattatcta 1560
catgatgttt atagtctctg tgggttttca cccaagaagc agaattctcat tcagtacatt 1620
tagttttata agagtcatga agctaaatcc ttgggctatg tcagaggcac aaagtctaga 1680
atgtgtgtat tcacaatggg gtatgtacat tttgtgcctt gattcactta gaagtgtctc 1740
agaaaacctg gacagttcgc ttctacacaa gaattttata tgtattttat aagatgattc 1800
tgtaccctag tatatctttt tgggcatgga ctaatttgta tctgtttaac tcatattctg 1860
cacgatctgt atatatgaca tcaaacttag aggtgtgacc ttaaatttaa ctttttttaa 1920
aaactgggag gtcaataaaa tttaaactgc ttaactatgt atatgaatat ttgaattttt 1980
tacttgtata tttttataaa tacagctgag ttttcttaaa gcg 2023
```

<210> 527

<211> 2847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2842)

<223> n equals a,t,g, or c

<400> 527

```
ggcacagggtt attctgtgtc tttcatagta gaaaccttaa tgatcgggtct gttgtagtga 60
actctttaaa aaggcgctat agaaaaccaa tttctgagta aaccagcaga cagcatgact 120
tgtaaatggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgtgg 180
aacgcttacc tttgtactag gcgtttttgt ttttgtttta atggcttttg gaatattata 240
gtattaacat ctggaaaact aggtaaattt atcttagaat taagtntttt gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaacca ttttttcaga agaggtcaga attgatcgcc aaaatcccaa atttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtga agaatgtgaa gatattaaat caggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagtctctt ccaaagaatt 660
tcatctgaat gagagtgggt atccatcttc gaagtccacc gaaatcaa atgaaatctgg 720
aaaggatttg acgaaacgtt cgagtcaa acgcagaataa gccagcagga agaggcagca 780
tgaggaaacca gagagcttct ttacctggtt tactgacct tctgatgcag gtgctgatga 840
gttaggagag gtcacaaaag atgatatttg gccaaacca ttacagtact acttggttcc 900
cgatatggat gatgaagaag gagaaggaga agaagatgat gatgatgatg aagaggagga 960
aggattagaa gatattgacg aagaaggaga tgaggatgaa ggtgaagaag atgaagatga 1020
tgattgagag gaggaaggag agggagatga agggagagat gactaaatag aacactgatg 1080
gattccaacc ttcctttttt taaattttct ccagtccttg ggagcaagtt gcagtctttt 1140
tttttttttt ttttttttcc ctcttggtct cagtcgccct gttcttgagg tctcttttct 1200
ctactccatg gttctcaatt tatttggggg gaaatacctt gagcagaata caatgggaaa 1260
agagtctcta cccctttctg ttcgaagttc atttttatcc cttcctgtct gaacaaaaaac 1320
tgtatggaat caacaccacc gagctctgtg ggaaaaaaga aaaacctgct cccttcgctc 1380
tgctggaagc tggagggtgc tagggccctg tgtagtagtg catagaattc tagctttttt 1440
cctcctttct ctgtatatgt ggctcagaga gtacactgtg tctctatgtg aatatggaca 1500
gttagcattt accaacatgt atctgtctac tttctcttgt ttaaaaaaag aaaaaaaac 1560
ttaaaaaaat ggggttatag aaggtcagca aagggtgggt ttgagatgtt tgggtgggtt 1620
aagtgggcat tttgacaaca tggcttctcc tttggcatgt ttaattgtga tatttgacag 1680
acatccttgc agtttaagat gacactttta aaataaattc tctcctaatt atgacttgag 1740
ccctgccact caatgggaga atcagcagaa cctgtaggat cttatttgga attgacattc 1800
tctattgtaa ttttgttcct gtttattttt aaattttctt tttgtttcac tggaaaggaa 1860
agatgatgct cagtttttaa cgttaaaagt gtacaagttg ctttgttaca ataaaactaa 1920
atgtgtacac aaaggatttg atgcttttct ctcagcatag gtatgcttac tatgaccttc 1980
caagtttgac ttgtataaca tcaactgtca actttgtcac cctaacttcg ttttttttga 2040
tacgcacttt gcaggatgac ctcagggtta tgtggattga gtaatgggat ttgaatcaat 2100
gtattaatat ctccatagct gggaaacgtg ggttcaattt gccattgggt tctgaaagta 2160
ttcacatcat ttgggatacc agatagctca atactctctg agtacattgt gcccttgatt 2220
tttatctcca agtggcagtt tttaaaattg gccttttacc tggatataaa ttaattgtgc 2280
```

```

ctgccaccac catccaacag acctgggtgct ctaatgccaa gttatacacg ggacagttgc 2340
tggcatgtct tcattggcta tataaaatgt ggccaagaag ataggctctc agtaagaagt 2400
ctgatgggtga gcagtaactg tccctgcttt ctggtataaa gctctcaa atgtgacatgt 2460
gaatctgggt gggataatgg actcagctct gtctgctcaa tgccattgtg cagagaagca 2520
ccctaatagca taagcttttt aatgctgtaa aatatagtcg ctgaaattaa atgccacttt 2580
ttcagagggtg aattaatgga cagtctgggt aacttcaaaa gctttttgat gtataaaaact 2640
tgataaatgg aactattcca tcaataggca aaagtgtaac aacctatcta gatggatagt 2700
atgtaatttc tgcacaggtc tctgtttagt aaatacatca ctgtataaccg atcaggaatc 2760
ttgctccaat aaaggaacat aaagatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa anaaaaa 2847

```

<210> 528

<211> 816

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 528

```

aaaacgantg tgtaattaac anaggctgtg cgcataaacg ttgccgttat ggttcgcgaa 60
ttttccccgg cgccaatgc gagggagacg aaantatgta aatgagtgga ttctggctga 120
gctatcctat tggctatcgg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
aatcgccgtt ctgtctataa aaagggtgaag cagcggcgtt ttcggcgact ttcccgatcg 240
ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag 300
gaggcaaggc ccgcgccaag gccaaagtcg gctcgtcccg cgctggcctt cagttcccg 360
taggcgagtg catcgtctcg cgcaaaggca actacgcgga gcgagtgggg gccggcgcgc 420
ccgtctacat ggctgcggtc ctcgagtatc tgaccgccga gatcctggag ctggcgggca 480
acgcggctcg ggacaacaag aagacgcgca tcattccctcgc tcacctccag ctggccatcc 540
gcaacgacga ggaactgaac aagctgctgg gcaaagtcac catcgcccag ggcggcgtct 600
tgcctaacat ccaggccgta ctgctcccta agaagacgga gagtcaccac aaggcaaagg 660
gcaagtgagg ctgacgtccg cccaagtggc ccagcccggc ccgcgtctcg aaggggcacc 720
tgtgaactca aaaggctctt ttcagagcca cccacgtttt caaataaaaag agttgttaat 780
gctggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 816

```

<210> 529

<211> 885

<212> DNA

<213> Homo sapiens

<400> 529

```
ggcagttacc ggtgccgtaa ttcccgggtc ggaccacgc gctctgtcgt ggcgcggctt 60
cccgcggtct tctctgcaaa tgggtccgt ggctagcgc ccccgcccc gccaccgtg 120
atcgtgcgcc gagggccgcg aggggtcgcc gccagatcc caccagccag caagctaaag 180
catggcggcc atccctcca gcggtcgtc cgtggccacc cacgactact accggcgccg 240
cctgggttcc acttcagca acagtcctg cagcagtacc gagtgcgccg gggaagccat 300
tccccacccc ccaggtctcc ccaaggctga cccgggtcat tgggtggcca gcttcttttt 360
cgggaagtc accctccgt tcatggccac ggtgttgag tccgcagagc actcggaacc 420
tccccaggcc tccagcagca tgaccgctg tggcctggct cgggacgcc cgaggaagca 480
gcccgcggt cagtccagca cagccagcgc tgggcccccg tcctgacctg agcggttacc 540
accagcccca ggctgcgga ggcgtagtc caccagagcc cctyccgcc cctctcccca 600
ctccgcatcc ctgcccccc tccccacctc ccacccccca ccctgtaaac taggcggctg 660
cagcaagcag accttcgcat caacacagca gacacaaaa accagtgaga gccccgctct 720
ctaccgccc gccccagcac tcgtagctt tcctgacacc tggaactgtg cacctggcac 780
caagcggaaa ataaactcca agcagccagt agcccgatg gtgtgtgcct gagctgtgtg 840
gcccgagggt ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 885
```

<210> 530

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 530

```
ggtacctgac agtaccggtc ggaattcccg ggctcgacca cgcgtccgct gctgctctta 60
aaggtagcgg cctcagggtc cctgctgtag acggggcggg ggagagtac atgggtgggg 120
```

```

cgtggtgggt cgtagggcgc tcgagatgga gccccagct tccttgatgg atcgcggggc 180
gcgagtgcc tagacaagcc ggagctggga ccggcaatcg ggcgttgatc cttgtcacct 240
gtcgagacc ctcacccctc ccgtgggagc cccctttgga cactctatga ccctggaccc 300
tcgggggacc tgaacttgat gcgatgggag gctgtgcagg ctgcggcgg cgcttttcgg 360
attccgaggg ggaggagacc gtcccggagc cccggctccc tctgttgga catcagggcg 420
cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
tggtgatgct gagtgccgcc cacgacatcc ttagccacaa gaggacatcg ggaaaccaga 540
gccatgtgga cccaggccca acgccgatcc cccacaacag ctcatcacga ttgactgca 600
actctgtctc tacggctgct gtgctcctgg cggacatcct cccacactc gtcacaaat 660
tggtggstyc tyttggsctt cacctgctgc ccntnaccgt tgaggatgct gtgantctct 720
gtgctttatn ggggacagct ng 742

```

<210> 531

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 531

```

gtcggcattc ccgggtcgac ccacgcgtcc gggcccgttt ccggcggcgt cgcgcgtttg 60
cgarccctcg gtggtcctca gggagggtct ctcggccaga acacgtggat gcccacccac 120
cactgagcct catggagggtg gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
agtggcagtg tctggaccct ggccagaggg ccctctacag ggaagtgatg ctggagaacc 240
acagcagtggt ggctggacta gcaggattcc tggttttcaa gcctgagctg atctctcggc 300
tggagcaggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggettaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gaggggctca caactgtrgg tagctgtagg tgartcgcgg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct 525

```

<210> 532

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 532

```

gtggtctgag gccggtacag ctgcgcgtct gcgggaatag gtgcagcggg cccttggcgg 60
gggactctga gggaggagct ggggacggcg accctaggag agttcttttg ggtgactttc 120

```

aagatggact ctactctaac agcaagtgaa atccggcagc gatttataga tttcttcaag 180
aggaacgagc atacgtatgt tcactcgtct gccaccatcc cattggatga cccactttg 240
ctctttgcca atgcaggcat gaaccagttt aaaccattt tcctgaacac aattgacca 300
tctcacccca tggcaaagct gagcagagct gccaataccc agaagtgcac ccgggctggg 360
ggcaaacata atgacctgga cgatgtgggc aaggatgtct atcatcacac cttcttcgag 420
atgctgggct cttggtcttt tggagattac tttaaggaat tggcatgtaa gatggctctg 480
gaactcctca cccaagagtt tggcattccc attgaaagac tttatgktac ttactttggc 540
ggggatgaag cagctggctt agaagcagat ctggaatgca aacagatctg caaaatttgg 600
gaaatgattc tggggaccat tctgaccaca tgcattacta tcagggtaaa aaatatttcc 660
gagataggag gggaggtggc agaaattcag actggtcttc agatacaaat cgacaaggac 720
aacagtcatc atctgactgc tacatatatg attctgctac tggctactat tatgaccct 780
tggcaggaac ttattatgac cccaataccc agcaagaagt ctatgtgcc caggatcctg 840
gattacctga ggaagaagag atcaaggaaa aaaaaccac cagtcaagga aagtcaagta 900
gcaagaagga aatgtctaaa agagatggca aggagaaaa agacagagga gtgacgaggt 960
ttcaggaaaa tgccagtga ggaaggccc ctgcagaaga cgtctttaag aagccctgc 1020
ctcctactgt gaagaaggaa gagagtcccc ctccacctaa agtggtaaac ccactgatcg 1080
gcctcttggg tgaatatgga ggagacagt actatgagga ggaagaagag gaggaacaga 1140
cccctcccc acagccccgc acagcacagc ccagaagcg agaggagcaa accaagaagg 1200
agaatgaaga agacaaactc actgactgga ataaactggc ttgtctgctt tgcagaaggc 1260
agtttcccaa taaagaagtt ctgatcaaac accagcagct gtcagacctg cacaagcaa 1320
acctggaat ccaccggaag ataaaacagt ctgagcagga gctagcctat ctggaaagga 1380
gagaacgaga gggaaagt t aaaggaagag gaaatgatcg cagggaagag ctccagtctt 1440
ttgactctcc agaaaggaaa cggattaagt actccaggga aactgacagt gatcgtaaac 1500
ttgttgataa agaagatc gacactagca gcaaaggagg ctgtgtccaa caggctactg 1560
gctggaggaa agggacaggc ctgggatatg gccatcctgg attggcttca tcaggaggag 1620
ctgaaggccg gatgaggggc cccagtgttg gagcctcagg aagaaccagc aaaagacagt 1680
ccaacgagac ttaycgagat gctgttcgaa gagtcatgtt tgctcgatat aaagaactcg 1740
attaagaaag gagacaagtt ccatgggata caacctccct cttgttttgt ttgtctctcc 1800
ttttcttttg ttactgttct tgctgctaga acttttttaa ataaactttt tttcaatgtg 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 1920
ggggg 1925

<210> 533

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<400> 533

```
catagaggca aacggtacac tgacagtacc gtccggaatt cccgggtcga cccacgcgtc 60
cgggccgcaa agcctgagtc ctgtcctttc tctctccccg gacagcatga gcttcaccac 120
tcgctccacc ttctccacca actaccggtc cctgggctct gtccaggcgc ccagctacgg 180
cgcccgcccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttccccg 240
gatctccgtg tcccgcctca ccagcttcag gggcggcagtg ggggtccgggg gcctggccac 300
cgggatagcc ggggggtctgg caggaatggg agcatccaga acgagaagga gaccatgcaa 360
aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggagggt ggaaagcaaa aaccggggag cactttggag aagaagganc ccaggtcaga 480
gnctggnagc cattaattca ag 502
```

<210> 534

<211> 1800

<212> DNA

<213> Homo sapiens

<400> 534

```
tcgacccacg cgtccggccg cgcgcgccac tgccaggcgg ggatcggggc gcgcgagctg 60
aggtggtgag ggactagctc ccgatgtgg agaagctggg gagaaggcgt gggaggaaga 120
tggaactcgg ggagaagggg gccgccacct ccgtctccaa ccccgggggg cgaccgtccc 180
ggggcccgcc gccgaagctg cagcgcaact ctcgcgccgg ccagggccga ggtgtggaga 240
agcccccgca cctggcagcc ctaattcttg cccggggagg cagcaaaggc atccccctga 300
agaacattaa gcacctggcg ggggtcccgc tcattggctg ggtcctgcgt gcggccctgg 360
attcagggggc cttccagagt gtatgggttt cgacagacca tgatgaaatt gagaatgtgg 420
ccaaacaatt tgggtgcacaa gttcatcgaa gaagtctga agtttcaaaa gacagctcta 480
cctcactaga tgccatcata gaatttctta attatcataa tgaggttgac attgtaggaa 540
atattcaagc tacttctcca tgtttacatc ctactgatct tcaaaaagtt gcagaaatga 600
ttcgagaaga aggatatgat tctgttttct ctgttgtagg acgccatcag ttctgatgga 660
gtgaaattca gaaaggagtt cgtgaagtga ccgaacctct gaatttaaat ccagctaaac 720
ggcctcgctg acaagactgg gatggagaat tatatgaaaa tggctcattt tattttgcta 780
aaagacattt gatagagatg ggttacttgc aggggtgaaa aatggcatac tacgaaatgc 840
gagctgaaca tagtgtgat atagatgtgg atattgattg gcctattgca gagcaaagag 900
tattaagata tggctatttt ggcaaagaga agcttaagga aataaaactt ttggtttgca 960
atattgatgg atgtctcacc aatggccaca tttatgtatc aggagaccaa aaagaaataa 1020
tatcttatga tgtaaaagat gctattggga taagtattatt aaagaaaagt ggtattgagg 1080
tgaggctaatt ctcaaaaagg gcctgttcaa agcagacgct gtcttcttta aaactggatt 1140
gcaaaatgga agtcagtgtg tcagacaagc tagcagttgt agatgaatgg agaaaagaaa 1200
tgggcctgtg ctggaaagaa gtggcatatc ttggaaatga agtgtctgat gaagagtgct 1260
tgaagagagt gggcctaagt ggcgctcctg ctgatgcctg ttctactgcc cagaaggctg 1320
ttggatacat ttgcaaagt aatgggtggc gtgggtgccat ccgagaattt gcagagcaca 1380
tttgctact aatggaaaag gttaataatt catgccaaaa atagaaatta gcgtaatat 1440
gagaaaaaaa tgatacagcc ttcttcagcc agtttgcttt tatttttgat taagtaaatt 1500
ccatgttgta atgttacaga gagtgtgatt tgggttgtag tatatatata ttgtgctcta 1560
cttttctctt tacgcaagat aattatttag agactgatta cagtctttct cagattttta 1620
gtaaatgcaa gtaagaacat catcaaagtt cactttgtat tgtaccctgt aaaactgtgt 1680
gtttgtgtgc tttcaaagat gttgggattt tatttatctg gggacagtgt gtatggtaag 1740
acatgccctt ctattaataa aactacattt ctcaaacttg aaaaaaactc gtgccgaatt 1800
```

<210> 535

<211> 2497

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2493)
<223> n equals a,t,g, or c

<400> 535
ggcggggccag ccaagatggc ggcctcatgc ttggctcctgc tggcgctgtg tctgctgctg 60
ccgctgctgc tgctgggagg atggaagcgc tggcgccggg ggcgggcccgc ccggcatgta 120
gtagcgggtg tgctgggcga cgtgggccgc agccccgta tgcagtacca cgcgctgtcg 180
ttggccatgc acggcttctc ggtgaccctc ctgggggttct gcaactcaa accccatgat 240
gagctcttgc agaacaacag aattcagatt gtgggggttga cagaacttca gactcttgca 300
gttgggcccc gagttttcca gtacggagtc aaagtgtgtac ttcaggctat gtacttgctg 360
tggaagttag tgtggaggga gccaggtgcc tatatctttc tccagaacct ccaggtctg 420
cctagcattg ctgtctgctg gtctgtgggc tgcctttgtg gaagcaagct cgtcattgac 480
tggcacaact atggctactc catcatgggt ctggtgcatg gcccacaacca tccccctggt 540
ctgctggcca agtggtacga gaagttcttt gggcgccctgt cccacctgaa cctgtgtgtt 600
accaatgcta tgcgagaaga cctggcggtat aactggcaca tcagggctgt gaccgtctac 660
gacaagcccc catctttctt taaagagaca cctctggacc tgcagcaccg gctcttcatg 720
aagctgggca gcatgcactc tccgttcagg gcccgctcag aacctgagga ccagtcacg 780
gagcggtcgg ccttcacgga gcgggatgct gggagcgggc tggtagcgcg tctccgtgag 840
cgccagccc tgtgtgtcag cagcacgagc tggacagagg acgaagactt ctccatcctg 900
ctggcagctt tagaaaagt tgaacaactg actcttgatg gacacaacct tccttctctc 960
gtctgtgtga taacaggcaa agggcctctg agggagtatt atagccgcct catccaccag 1020
aagcacttcc agcacatcca ggtctgcacc ccctggctgg aggccgagga ctacccccctg 1080
cttctagggg cggcggacct ggggtgtctgt ctgcacacgt cctccagtgg cctggacctg 1140
cccatgaagg tgggtggacat gtttygggtgc tgtttgcctg tgtgtgctgt gaacttcaag 1200
tgtttacatg agctgggtgaa acatgaagaa aatggcctgg tctttgagga ctgagaggaa 1260
ctggcagctc agctgcagat gcttttctca aactttcctg atcctgcggg caagctaaac 1320
cagttccgga agaacctgcg ggagtcgcag cagctccgat gggatgagag ctgggtgcag 1380
actgtgctcc ctttggttat ggacacataa ctccctgggcc agaggctaaa accccrggac 1440
ccctgctgtc cttccgcgag cttcttctyg gactctcagg gcaaaccctt tcgagcagcr 1500
cctcccagtg gccagaagct gaaatgacag cagtgggtact gcctggtaaa agaattgggt 1560
ctgtgacccg ggaagctttg gttggccttg atttcttctc tggaggcttg gaaacgcttc 1620
ctctcttctt ctgttcttca cgccccatgc ccctgctagc gtattactgt tctgtgactt 1680
ccctgtgacc tctgcagaac tcctcactct gcgtttgggc tccaggtgtc cccttctgc 1740
cgtgttctta acattttgat tcctgtcttg aaaaaagcac ctgctgcacc gtaagccag 1800
ggatgtggca gctgcagtg gcttggtttt gtgaggaact gactgtgtcc acgttggggg 1860
aacatcatat ttgatacaca cgtttttatt tgcacaaaga aaatgctrtt tttggagcca 1920

gaattttcat gtctgattta tggatgatttt cttaagaacc agaactgctg gcagaaaggg 1980
ggcaccacaca cgcttagata gccgatgtct tattagaggg cagtttgagg ttcctgattt 2040
ggaawttaac attctccaaa cattccagtc caatgaaagt tttatccgct tccccatata 2100
aaaattcttc ccattgagagt gacttgattc tcacaatccc gttggagtcg tgtgtgagtc 2160
ctacagtgtg aggttcagca ttgccatctc caagtgtctc ycrtagggaa acagtttctg 2220
gtcatgatga gcttccgctt cccatctgat cccagcccrp cctagctcgg tggatgaacas 2280
ctggcacgtc tctgggttgc ggacrgtaaa ggccaygtag acctcaggag cccgctgggtg 2340
ctcccagcag gcagccagcc tccgcaggac sccgaccags gacaygatgg cttctgggca 2400
atacagcacg tctacggtga aagcttcagg ttactgctgt aatgacaaca tctggctgga 2460
aggccanaac tgatggaccg cactacntcc cantcca 2497

<210> 536

<211> 4090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2475)

<223> n equals a,t,g, or c

<400> 536

ccggccacga gaagaaatca ggggtgctcag ctatctgcag gngtggaccc agggcccaag 60
cctgtggcctt ccagtcagtc cagcccgac ctctcccatg ggagggcctg aragcgcggg 120
aacatcctgg gcccctggga tctcagaggc tggaccttcc tgggagactc attgagtaag 180
atgcagagga ctcccttcttg ggtgggtggga gtccctgggtc tgctctgggg cccctggcctt 240
tcccccatga gaaaaagcag ctggagctgg gaagtccac ctggccatcg tgcagaaggt 300
aaacaacgag ggtgaggggtg accccttcta cgaggctcctg ggcttgggtc ccctggagga 360
cgtgatcgag gagatcatca agtcggagat cctggacgag tccgacatgt acactgacaa 420
ccgaagccgg aagcgggtgt ctgagaagaa caagcgtgac ttctctgcct tcaaggatgc 480
ggacaatgag ctcaaagtga aaatctcccc gcagctcctc ctggccgntc atcgnttcc 540
agccacagag gtctctcagt ttagccctc cctgatatac gagaagatcc tgetgaggct 600
actcaagtac ccagatgtca ttcaggaact caagtttgac gagcacaata agtactacgc 660
ccgccattac ctgtacaccc gaaataagcc ggccgactac ttcacctcctc tctgagagg 720
gaaggtggag gtggaggcag ggaaggagaa catgaagttt gagacgggag ccttctccta 780
ctatgggact atggccctga cctcgggtccc ctccgaccgt tccccagcac accccacccc 840

actcagccgc tcagcctccc tcagttaccc agaccgcaca gacgtctcaa ctgcagcaac 900
cttggcaggc agcagcaacc agtttggcag ctctgtcctg ggccagtaca tctctgactt 960
cagcgtccgg gcaactcgtgg acttgacagta catcaagatc actcggcagc agtaccagaa 1020
cgggctgctg gcttctcgcga tggagaacag ccctcagttt cccatagacg ggtgcaccac 1080
ccacatggag aacttggccg agaagtctga gctgcctgtg gtggacgaga ccacaactct 1140
tctcaacgag cgtaactcct tgctgcacaa agcctccac gagaatgcca tctgacagga 1200
gggcccgggg cccctgcca ccctgcgggg gcctycccag tgggcccaca tgaagagagg 1260
gaacctgtta gtccagaaag gatacggata gatagcctgt ctgactgaac agccagatgg 1320
ccccagcct atgggggatac tggcctctgc caggacctc tgagtagctc tgagggtggca 1380
ctgtccagcc ctggataggg ggggcagtgg gccagctacc gtaagcaaag gctgtttttt 1440
actgagagaa tttctaaagt aggtcatca ctttttttta aatatcattt tgggaagggg 1500
agacagggtt aaggaacttt atttaaaaaa aaaatatattt tttcctaaaa actataaaag 1560
aggaagggtt tcttgtcccg ggaagcaacg gacataatct gttcccagcc atggccttcc 1620
agcttgtgtc cctgattcag ggagctctcc cttcctcctc ctcctcctcc tccggagggtg 1680
ggatcccaga gcctgccagt ggaggcttat ctgttgggag gaagacagct cttcacagaa 1740
gcaaagaaca aaatggcatg gagatcagct gcctgagcac ctgcgctgta gcttatctga 1800
caacgctgag gccacgagct cctgggtagc tgtgatcagg gacatgataa tctgagctat 1860
gcagaggagc acatctgttg tcaactgctg taccagaaa tctagaactc tgccgacagc 1920
ctctcctggt gagtcgggac tcagctgagg acacatcccc accctgcctc ccactctggcc 1980
ctttggacaa ctggcccttt gtgacagggc tgactcaagt gttaggcagg gtctcaggcc 2040
tttgattgct caccctgct cccagggccc tgccctcact tttaccaaag gttctcctc 2100
ggcgggaggg catctgtgtt ggagggtgatt tgtctgggtt cttccttttg gttccagaag 2160
gaactgtcag tcatcagcat ctgctgtgtt agcagtcagt accacccccg cccacaatg 2220
acagtcaagg ctgacttggt gactgaagcc ttttccag accccttatt tcgaatcccc 2280
aagcttcagt ccctcttggg ggtggagaca agaggacatg tgggaagcca cggaagcagg 2340
ttctttatgt cctctcctct gtggctggca aggtcaccct ggccttatcc acccattat 2400
ggaacctcag gagaggaggg ctctcctcaa aggcattgag cttgcagccc ctctttctca 2460
cacgtgtgat cctancgtga gaggtcatcc tgcccttgct gaagttagta ctactgtact 2520
aagagctctg ccctcatgtg aattcctgcc ctggcgccctc ttccttgggg ctgaatcagg 2580
ccctgctgca aaactccagg cttcccaggg ttggggaggc tgtgggacca argtccatgt 2640
tggtccttcc actgggtgca gcaggagctg ggtcccgara gcctggcagg tgaaactctg 2700
caggccttcc gcctgattat tatttattca ctctttcct caccccaagt gccctgctct 2760
ccagggtgct agagtatcct aactcttagg accagggatt gtcttgacc aagtatgcct 2820
acccttgcc agtctgaggt ctcctagcca tagaactgac tcctggaagc ctggagagaa 2880
ggtggtgaca cccatgggtt ctcaactgta aggaaaaaag acaccagact tttgttccct 2940
agtgggggaa agcccttagt cttgtacagg agcagcttgc tcccaagtcc ttttggaaag 3000
tggcagagct atattcctga cagccctgac tgccaggtag agcaaaagac attggtgggg 3060
gtatgtgaag caaaaggggc aggtgcacac acctccacag tgacctctgt gcacacggtt 3120
accaccaact ggctggccct cctcctcttc cctggcccat tgatcatccc ttctcacaga 3180
gggtcatcat tatttccaaa tattgtttgt ctgatgactt cctcttccca gtgcaatttt 3240
tcccttccca tttcaacctc tgggtcctgg gatgagccat accctggaac tggcccaccc 3300
actgtgtctt ccacgtaagg gagaccttg caaaggcat ccaaagggg aggcagggtga 3360
cagccgccgt atttattttg cataatattt taatttgtat atttttgtga tttattttgg 3420
cgttatgagt ttgactctcg gggagttttg ttgttatgac tcttgtgtct tttgtcacia 3480
aacaatgata tttgctaaac gatatatgga atttattttt gattggtaat aaaaaatcaa 3540
atatgtataa atcctggtga atctacaact tgctgtttr ttctgtcagt attcagtatg 3600
ttgttgagat aaaagtggct gtggctggct gtctcttgtg atgggacaag ggcaataaag 3660
gattctagga ccattcagca gtgaaatgca atcagaaatg gaatttctaa atatagtcaa 3720
ggctgtcgtc acaggagtga gagggacgtg gctgctggca gacatacagg acagatgtgc 3780
tcagctgcca taagcatgag tcctgtgaaa cagatcccat agsgcccttg gcttgtgagt 3840
actggaaggg cagtgggctt cagcaaattg cccctcctcc ctacccatgg gactgaaaga 3900

agcttgatcc aaaagtatga gtaatatgtggt tttataacat gcagctgcct tttcgtccac 3960
acctacaggc tagtggtttc aaagttggag tgttcacccc ttgaagaacc tgagttacgt 4020
cactataccc actctcaaag ttgcagctct gcaggggact cccatgggtg tgtagcaggtg 4080
ctactctgcc 4090

<210> 537

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 537

cgccggcgcg gggccgctac gtgcgcgggg agcgcgggga gcgcggggag cgccgnggct 60
gcgctcgtgt gcgctcctgg gcgctcgccg ccgcgcgtgc cgccgcgcgc ctttgagtca 120
gcaaactccg cgcccgcaa gcccggtcg gcccgccct gctctgttct gcccgagga 180
gccgcccatt gatcgtgtcc tgtgctgaag atgtttccgg aacaacagaa agaggaattt 240
gtaagtgtct gggttcgaga tctaggatt cagaaggagg acttctggca ttcttacatt 300
gactatgaga tatgtattca tactaatagc atgtgtttta caatgaaaac atcctgtgta 360
cgaagaagat atagagaatt cgtgtggctg aggcagagac tccaaagtaa tgcgttgctg 420
gtacaactgc cagaacttcc atctaaaaac ctgtttttca acatgaacaa tcgccagcac 480
gtggatcagc gtcgccaggg tctgggaaat ttcctcagaa aagtcctaca gatgcacttt 540
tgctttcaga tagcagcctt cacctcttcc ttacagagcc atctga 586

<210> 538

<211> 1250

<212> DNA

<213> Homo sapiens

<400> 538

aattcggcac gagctctccc ttccggttct ctctttcggc cgccgcgcgc agttcctggg 60
gcacacccag aggtcccctt ctccgcgcgc cctgcaactg cgagggtagc ccggggccgc 120
ttggagtcgc ccggacctga gaggtgctg cactgggcct cagccagccc tccggtgct 180
ggtgctgcca tccccctgcc ctccagctct ggcatthtcc tccgttgaga ccatggaggg 240
ccctccccgt cggacttgcc gctccccaga acctggacct tccctcctcca tcggatctcc 300
ccaggcttca tctcctccaa ggcccaacca ctacctgctt attgacactc aggggtgtccc 360
ctacacagtg ctggtggacg aggagtcaca gagggagcca ggggccagtg gggctccagg 420
ccagaaaaag tgctacagct gcccgtgtg ctcaagggtc ttcgagtaca tgcctacct 480
tcagcgacac agcatcaccc actcgagggt aaagcccttc gagggtgaca tctgtgggaa 540
ggcattcaag cgccgcagcc acttggcacg gcaccattcc attcacctgg cgggtggtgg 600
gcggccccac ggctgcccgc tctgcctcgc ccgcttccgg gatgcgggtg agctggccca 660
gcacagccgg gtgactctg gggaacgccc gtttcagtgt ccacactgcc ctccgcgtt 720
tatggagcag aacacactgc agaaacacac gcggtggaag catccatgag ccgggctgcc 780
gggtgcccc ggtaccacag gactttgcag ggagcctgga ctctgtcca gacacctgg 840
gagagcctga ggctggtgtt cagggccctg gacacagaca cagagcagcc gcatctcaaa 900
rgcagagccc tgctgaagg aggaatccgt gagtaatctt caggctcctc gtgttctgga 960
gctgagatgg gaatgagccc ctacacagaa tggagtcctc tagcctaaag atatcagctg 1020
ttccatggca gaggcttgac tggatggagg tggggagtg ggtgtgtaaa gtctctggcc 1080

tcataaaagg tggctgtggg tcgtcaggaa tctgcgccat cttcctgggg cttctgcgct 1140
gttggtgggg aagggaaccc agtccctgcct tccaccccc aaccaggcct gagactgac 1200
aaacaataaa cacgtttccc actctgaaaa aaaaaaaaaa aaaaaaaaaa 1250

<210> 539

<211> 1350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<400> 539

ggcagagcac atgcgcaccg cagcgggtcg cgcgccctaa ggagtggcac tttttaaag 60
tgcagccgga gaccagccta cagccgcctg catctgtatc cagcgcacagg tcccgcacagt 120
cccagctgcg cgcgcccccc agtcccgcac ccgttcggcc caggctaagt tagccctcac 180
catgccgggtc aaaggaggca ccaagtgcac caaataacctg ctgttcggat ttaacttcat 240
cttctggctt gccgggattg ctgtccttgc cattggacta tggctccgat tcgactctca 300
gaccaagagc atcttcgagc aagaaactaa taataataat tccagcttct acacaggagt 360
ctatattctg atcggagccg gcgccctcat gatgtgggtg ggcttccttg gctgctgcgg 420
ggctgtgcag gagtcccagt gcatgctggg actgttcttc ggcttcctct tggatgatt 480
cgccattgaa atagctgcgg ccactctggg atattcccac aaggatgagg tgattaagga 540
agtccaggag ttttacaagg acacctacaa caagctgaaa accaaggatg agccccagcg 600
ggaaacgctg aaagccatcc actatgcgtt gaactgctgt ggtttggctg ggggcgtgga 660
acagtttatc tcagacatct gccccaagaa ggacgtactc gaaaccttca ccgtgaagtc 720
ctgtcctgat gccatcaaag aggtcttcga caataaatc cacatcatcg gcgcagtggg 780
catcggcatt gccgtggtca tgatatttgg catgatcttc agtatgatct tgtgctgtgc 840
tatccgcagg aaccgcgaga tggcttagag tcagcttaca tccctgagca ggaaagtta 900
cccatgaaga ttggtgggat ttttgtttg tttgtttgt tttgtttgtt gtttgttgtt 960
tgtttttttg ccactaattt tagtattcat tctgcattgc tagataaaag ctgaagttac 1020
tttatgtttg tcttttaatg cttcattcaa tattgacatt tgtagttgag cggggggttt 1080
ggtttgcttt ggtttatatt ttttcagttg tttgtttttg cttgttatat taagcagaaa 1140
tcctgcaatg aaagggtacta tatttgctag actctagaca agatattgta cataaaagaa 1200
tttttttgtc tttaaataga taaaaatgtc tatcaacttt aatcaagttg taacttatat 1260
tgaagacaat ttgatacata ataaaaaatt atgacaatgt cctgnaaaaa aaaaaaaaaa 1320
aaaagggcgg ccgccccaga gganccccng 1350

<210> 540

<211> 2509

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 540

```
cctnctgtggg aactagtggg tcccccgggc tggcaggnaa ttcggggcasa gccggccaca 60
gtccaccgcg cggagattct cagcttcccc agggagcaaga cctctgagcc cgccaagcgc 120
ggccgcacgg cctcggcagc gatggcactg aaggactacg cgctagagaa ggaaaagggtt 180
aagaagttct tacaagagtt ctaccaggat gatgaactcg ggaagaagca gttcaagtat 240
gggaaccagt tggttcggct ggctcatcgg gaacagggtg ctctgtatgt ggacctggac 300
gacgtagccg aggatgaccc cgagttgggt gactcaattt gtgagaatgc caggcgctac 360
gcgaagntct ttgctgatgc cgtacaagag ctgctgcctc agtacaagga gaggggaagtg 420
gtaataaaag atgtcctgga cgtttacatt gagcatcggc taatgatgga gcagcggagt 480
cgggaccctg ggatgggtccg aagccccag aaccagtacc ctgctgaact catgcgcgaga 540
tttgagctgt attttcaagg ccctagcagc aacaagcctc gtgtgatccg ggaagtgcgg 600
gctgactctg tggggaagtt ggtaactgtg cgtggaatcg tctactcgtgt ctctgaagtc 660
aaacccaaga tgggtggtggc cacttacact tgtgaccagt gtggggcaga gacctaccag 720
ccgatccagt ctcccacttt catgcctctg atcatgtgcc caagccagga gtgccâaacc 780
aaccgctcag gagggcggct gtatctgcag acacggggct ccagattcat caaatccag 840
gagatgaaga tgcaagaaca tagtgatcag gtgcctgtgg gaaatatccc tcgtagtatc 900
acggtgctgg tgaaggaga gaacacaagg attgcccagc ctggagacca cgctacgctc 960
actggtatatt tcttgccaat cctgcgcact ggggtccgac aggtggtaca gggtttactc 1020
tcagaaacct acctggaagc ccatcggatt gtgaagatga acaagagtga ggatgatgag 1080
tctggggctg gagagctcac cagggaggag ctgaggcaaa ttgcagagga ggatttctac 1140
gaaaagctgg cagcttcaat cgccccagaa atatacgggc atgaagatgt gaagaaggca 1200
ctgctgctcc tgctagtcgg ggggtgtggc cagtctcctc gaggcatagaa aatccggggc 1260
aacatcaaca tctgtctgat gggggatcct ggtgtggcca agtctcagct cctgtcatac 1320
attgatcgac tggcgcctcg cagccagtac acaacaggcc ggggctcctc aggagtgggg 1380
cttacggcag ctgtgctgag agactccgtg agtgagaaac tgaccttaga ggggtggggcc 1440
ctgggtgctgg ctgaccaggg tgtgtgctgc attgatgagt tcgacaagat ggctgaggcc 1500
gaccgcacag ccatccacga ggtcatggag cagcagacca tctccattgc caaggccggc 1560
attctcacca cactcaatgc ccgctgctcc atcctggtg ccgccaaccc tgctacggg 1620
cgctacaacc ctgcgcgag cctggagcag aacatacagc tacctgctgc actgctctcc 1680
cggtttgacc tcctctggct gattcaggac cggcccagcc gagacaatga cctacgggtg 1740
gcccgacaca tcacctatgt gcaccagcac agccggcagc cccctccca gtttgaacct 1800
ctggacatga agctcatgag gcgttacata gccatgtgcc gcgagaagca gcccatggtg 1860
ccagagtctc tggctgacta catcacagca gcatacgtgg agatgaggcg agaggcttgg 1920
```

gctagtaagg atgccaccta tactttctgcc cggaccctgc tggctatcct gcgcctttcc 1980
actgctctgg cacgtctgag aatggtggat gtggtggaga aagaagatgt gaatgaagcc 2040
atcaggctaa tggagatgtc aaaggactct cttctaggag acaaggggca gacagctagg 2100
actcagagac cagcagatgt gatatttgcc accgtccgtg aactggtctc agggggccga 2160
agtgtccggg tctctgaggc agagcagcgc tgtgtatctc gtggcttcac acccgcccag 2220
ttccaggcgg ctctggatga atatgaggag ctcaatgtct ggcagggtcaa tgcttcccgg 2280
acacggatca cttttgtctg attccagcct gcttgcaacc ctggggtcct cttgttccct 2340
gctggcctgc cccttgggaa ggggcagtga tgcctttgag gggaaggagg agcccctctt 2400
tctcccatgc tgcacttact ccttttgcta ataaaagtgt ttgtagattg tcaaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggag 2509

<210> 541

<211> 1743

<212> DNA

<213> Homo sapiens

<400> 541

ggcagaggtt ggggtcccgcc cttgtaggct gtccacctca aacggggccgg acaggatata 60
taagagagaa tgcaccgtgc actacacacg cgactcccac aagggttgag ccggagccgc 120
ccagctcacc gagagcctag ttccggccag ggtcgccccg gcaaccacga gccagccaa 180
tcagcgcccc ggactgcacc agagccatgg tcggcagaag agcactgatc gtactggctc 240
actcagagag gacgtccttc aactatgcca tgaaggaggc tgctgcagcg gctttgaaga 300
agaaaggatg ggaggtggtg gagtcggacc tctatgccat gaacttcaat cccatcattt 360
ccagaaagga catcacaggt aaactgaagg accctgcgaa ctttcagtat cctgccgagt 420
ctgttctggc ttataaagaa ggccatctga gccagatat tgtggctgaa caaaagaagc 480
tggaagccgc agacctgtg atattccagt tccccctgca gtggtttgga gtccctgcca 540
ttctgaaagg ctggtttgag cgagtgttca taggagagtt tgcttacact tacgctgcca 600
tgtatgacaa aggacccttc cggagtaaga aggcagtgtc ttccatcacc actggtggca 660
gtggctccat gtactctctg caagggatcc acggggacat gaatgtcatt ctctggccaa 720
ttcagagtgg cattctgcat ttctgtggct tccaagtctt agaacctcaa ctgacatata 780
gcattgggca cactccagca gacgcccga ttcaaactctt ggaaggatgg aagaaacgcc 840
tggaataat ttgggatgag acaccactgt attttgctcc aagcagcctc tttgacctaa 900
acttccaggc aggattctta atgaaaaaag aggtacagga tgaggagaaa aacaagaaat 960
ttggcctttc tgtgggccat cacttgggca agtccatccc aactgacaac cagatcaaag 1020
ctagaaaatg agattcctta gcctggattt ccttctaaca tgttatcaaa tctgggtatc 1080
tttccaggct tccctgactt gctttagttt ttaagatttg tgtttttctt tttccacaag 1140
gaataaatga gaggaatcg actgtattcg tgcatttttg gatcattttt aactgattct 1200
tatgattact atcatggcat ataaccaaaa tccgactggg ctcaagaggc cacttaggga 1260
aagatgtaga aagatgctag aaaaatgttc tttaaaggca tctacacaat ttaattcctc 1320
tttttagggc taaagtttta gggtagagtt tggctaggta tcattcaact ctccaatggt 1380
ctattaatca cctctctgta gtttatggca gaagggaatt gctcagagaa ggaaaagact 1440
gaatctacct gccctaaggg acttaacttg tttggtagtt agccatctaa tgcttggtta 1500
tgatattttc tgctttcaat taaaaagcag ttactaatat gcctagcaca agtaccactc 1560
ttggtcagct tttgttggtt atatacagta cacagatacc ttgaaaggaa gagctaataa 1620
atctcttctt tgctgcagtc atctactttt tttttaatta aaaaaaattt tttttgaac 1680
agcttgctct gtacccargc tggatgcart gggtgactcg gctcactgca acctctgcct 1740
ccc 1743

<210> 542

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 542

```
cgcgccctgca ggttcgacag tagtggatcc aaagaattcn gcacgaggct ggggtgcagca 60
accggagcgg cggcgcgtct ggaggaggct gcacgagcgg aagaccccag tccagatcca 120
ggactgagat cccagaacca tgaacctggc catcagcatc gctctcctgc taacagtctt 180
gcaggctctcc cgagggcaga aggtgaccag cctaacggcc tgcctagtgg accagagcct 240
tcgtctggac tgccgccatg agaataccag cagttcaccc atccagtacg agttcagcct 300
gacccgtgag acaaagaagc acgtgctctt tggcactgtg ggggtgcctg agcacacata 360
ccgctcccga accaacttca ccagcaaata caacatgaag gtcctctact tatccgcctt 420
cactagcaag gacgagggca cctacacgtg tgcactccac cactctggcc attccccacc 480
catctcctcc cagaacgtca cagtgtctcag agacaaactg gtcaagtgtg agggcatcag 540
cctgtctggc cagaacacct cgtggctgct gctgtcctct ctctccctct ccctcctcca 600
ggccacggat ttcattgtccc tgtgactggt gggggccatg gaggagacag gaagcctcaa 660
gttcacagtgc agagatcccta cttctctgag tcagctgacc ccctccccsc aatccctcaa 720
accttgagga gaagtgggga cccaccccct catcaggagt tccagtgtct catgcgatta 780
tctaccacag tccacgcggc caccctaccc tctccgcaca cctctggctg tctttttgtg 840
ctttttgttc cagagctgct tctgtctggt ttatttaggt tttatccttc cttttctttg 900
agagttcgtg aagagggaag ccaggattgg ggacctgat gagagtgaga gcatgtgagg 960
ggtagtggga tgggtggggt ccagccactg gagggggtcat ccttgcccat cgggaccaga 1020
aacctgggag agacttgat gaggagtggg tgggctgtgc ctgggcctag cacggacatg 1080
gtctgtcctg acagcactcc tcggcaggca tggctggtgc ctgaagaccc cagatgtgag 1140
ggcaccacca agaatttgtg gcctaccttg tgaggagag aactgagcat ctccagcatt 1200
ctcagccaca accaaaaaaa aataaaaagg gcagccctcc ttaccactgt ggaagtccct 1260
cagaggcctt ggggcatgac ccagtgaaga tgcaggtttg accaggaaag cagcgctagt 1320
ggagggttg agaaggagg aaaggatgag ggttcacat ccctccctgc ctaaggaaagc 1380
taaaagcatg gccctgctgc ccctccctgc ctccaccac agtggagagg gctacaaagg 1440
aggacaagac cctctcaggc tgtcccaagc tcccaagagc ttccagagct ctgaccacca 1500
gcctccaagt caggtggggt ggagtcccag agctgcacag ggtttggccc aagtttctaa 1560
gggaggcact tcctcccttc gcccatcagt gccagcccct gctggctggt gcctgagccc 1620
ctcagacagc cccctgcccc gcaggcctgc cttctcaggg acttctgcgg ggcctgaggc 1680
aagccatgga gtgagaccca ggagccggac acttctcagg aaatggcttt tcccaacccc 1740
cagccccac ccggtggttc ttctgttct gtgactgtgt atagtgccac cacagcttat 1800
ggcatctcat tgaggacaaa gaaaactgca caataaaacc aagcctctgg aatctgtcct 1860
cgtgtccacc tggccttcgc tcctccagca gtgcctgcct gccmcgcttc gctggggtct 1920
ccacgggtga ggctggggaa cgccacctct tcctcttccc tgacttctcc ccaaccactt 1980
agtagcaacg ctaccccagg ggctaattgac tgcacactgg gcttcttttc agaattgacc 2040
taacgagaca catttgccca aataaacgaa catcccatgt ctgctgactc acctggctgg 2100
aacaacatgc ttactgcca catgtgggccc gaaccacatg gccctggctt tggaatgcac 2160
aagtggcttt gcgtgaattt gcgctaagct atgcagtttg aaaaaaaaaa 2210
```

<210> 543

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 543

```

ggcagcagcg cactcccagc cggccgcagc ctgacacgcc gcgcggcccc ccagtctccc 60
gcggtctgctc cccagggcat ggcacagggc ctgcctcac tatggcagca gcacggcaca 120
gcacgctcga cttcatgctc ggcgccaag ctgatggtga gaccattcta aaaggcctcc 180
agtccatttt ccaggagcag gggatggcgg agtcggtgca cacctggcag gaccatggct 240
atntagcaac ctacacaaac aagaacggca gctttgccaa tttgagaatt taccacatg 300
gattggtgtt gctggacctt cagagttatg atggtgatgc gcaaggcaaa gaagagatcg 360
acagtatttt gaacaaagta gaggaaagaa tgaaagaatt gagtcaggac agtactgggc 420
gggtgaaacg attaccaccc atagtgcgag gaggagccat cgacagatac tggcccaccg 480
ccgacgggcg cctggttgaa tatgacatag atgaagtggg atatgacgaa gattcacctt 540
atcaaaatat aaaaattcta cactcgaagc agtttgaaa tattctcatc cttagtgggg 600
atgttaattt ggcagagagt gatttggcat ataccgggc catcatgggc agtggcaaa 660
aagattacac tggcaaagat gtactcattc tgggaggtgg agacggaggc atattgtgtg 720
aaatagtcaa actaaaacca aagatggtca ctatggtaga gattgaccaa atggtgattg 780
atgggtgtaa gaaatacatg cgaaaaacgt gtggcgatgt cttagacaat cttaaaggag 840
actgctatca ggttctaata gaagactgta tcccggtact gaagaggtac gccaaagaag 900
ggagagaatt tgattatgtg attaatgatt tgacagctgt tccaatctcc acgtctccag 960
aagaagattc cacatgggag tttctcagac tgattcttga cctctcaatg aaagtgttga 1020
aacaggatgg gaaatatatt acacagggga actgtgtcaa tctgacagaa gcactgtcgc 1080
tctatgaaga acagctgggg cgctgtatt gtcctgtgga attttcaaag gagatcgtct 1140
gtgtcccttc atacttgga ttgtgggtat tttacactgt ttggaagaaa gctaaaccct 1200
gaagatcagt agccccta at cacatgtgct gcaaatagcc ttctgacct ccatatgctg 1260
tacatgacat caaaatgagt caggcaattg attgtgaatt ccttaaagtt ttcctttttt 1320
taataattat ttttaattta aaaaagcaaa tggaaaatgt atattttgat gagcttaggg 1380
tgtttttttt ttgaaagtca gctgaaggat ggtagacag cacagcgaag actgctaaat 1440
gcactgaccc ccccatag aatgtgattt ttgttcctt ttatttctct gtgggctttt 1500
gtttttgttt ttgttttggt agatcttcaa tttggatatt tggaggagt aacatcggtg 1560
ttttgctgga ggaagatct tgatggtgtt tctttcccca aaaattgact tagatattaa 1620
aatttggtgc ttataagaga gagttaaaaa aaaataggat tgcttcaatt aaaattacaa 1680
aagagamaaa aaaaaaaaaa aaagaaagtc gacgc 1715

```

<210> 544

<211> 3109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 544

```

ggtttgactg cagagatgtg gcattcactg tgggcgaagg agaagaccac gacattccaa 60
ttggaattga caaagctctg gagaaaatgc agcgggaaga acaatgtatt ttatatcttg 120
gaccaagata tggtttttga gaggcaggga agcctaaatt tggcattgaa cctaattgctg 180
agcttatata tgaagttaca cttaagagct tcgaaaaggc caaagaatcc tgggagatgg 240
ataccaaaga aaaattggag caggctgcca ttgtcaaaga gaagggaacc gtatacttca 300
agggaggcaa atacatgcag gcggtgattc agtatgggaa gatagtgtcc tgggttagaga 360
tggaatatgg tttatcagaa aaggaatcga aagcttctga atcatttctc cttgctgcct 420
ttctgaacct ggccatgtgc tacctgaagc ttagagaata caccaaagct gttgaatgct 480
gtgacaaggc cttggactg gacagtgcc atgagaaagg cttgtatagg aggggtgaag 540

```

```

cccagctgct catgaacgag tttgagtcag ccaaggggtga ctttgagaaa gtgctggaag 600
taaaccacca gaataaggct gcaagactgc agatctccat gtgccagaaa aaggccaagg 660
agcacaacga gcgggaccgc agatatacgc caacatgttc aagaagtttg cagagcagga 720
tgccaaggaa gagggccaata aagcaatggg caagaagact tcagaagggg tcactaatga 780
aaaagggaaca gacagtcaag caatggaaga agagaaacct gagggccacg tatgacgcca 840
cgccaaggag ggaagagtcc cagtgaactc ggcccctcct caatgggctt tcccccaact 900
caggacagaa cagtgtttta tgtaaagttt gttatagtct atgtgattct ggaagcaaat 960
ggcaaaacca gtagcttccc aaaaacagcc cccctgctgc tgcccggagg ntactactgag 1020
gggtggcacg ggaccactcc aggtggaaca aacagaaatg actgtggtgt ggagggagtg 1080
agccagcagc ttaagtccag ctcatctcag tttctatcaa ccttcaagta tccaattcag 1140
ggtccctgga gatcatccta acaatgtggg gctgttaggt tttacctttg aactttcata 1200
gcactgcaga aacctttaaa aaaaaaatgc ttcataaatt tctcctttcc tacagttggg 1260
tagggtaggg gaaggaggat aagcttttgt tttttaaatg actgaagtgc tataaatgta 1320
gtctgttgca tttttaacca acagaaccca cagtagaggg gtctcatgtc tccccagttc 1380
cacagcagtg tcacagacgt gaaagccaga acctcagagg ccacttgctt gctgacttag 1440
cctcctccca aagtccccct cctcagccag cctccttggt agagtggctt tctaccacac 1500
acagcctgtc cctgggggag taattctgtc attcctaaaa cacccttcag caatgataat 1560
gagcagatga gagtttctgg attagctttt cctattttcg atgaagttct gagatactga 1620
aatgtgaaaa gagcaatcag aattgtgctt tttctcccct cctctattcc ttttagggaa 1680
taatattcaa tacacagtac ttcctcccag cattgctact gctcagcttc ttctttcatt 1740
ctaactcctg ctattaagaa ttttaagactt gtgcttacaa tatttttgac ctggagtgga 1800
tctattttaca tagtcattta ggatccatgc agcttttttt gtctttttta gattattggc 1860
tcataagcat atgtatactg gtttatggaa ctttattttac actcctctat catgcaaaaa 1920
aattttgact ttttagtact aagcttaatt tttaaaaaca aaatctgtag kgttgacaaa 1980
taaatagttg ctcttctaca ctaggggttt cacctgcagg tttgacacgc agttgctcgc 2040
ttttcctgcc ctgtcaagct tctctgttct ggcgtgagtt gtgaaagagt tgaagacagc 2100
ttcccatgcc ggtacacagc cagtagccta aatctccagt acttgagctg accattgaac 2160
tagggcaagt cttaaatgtg tacatgtagt tgaatttcag tccttacggg taaacagatt 2220
gagcatggct ctctattccc tcagcctaag aaacactcat gggaatgcat ttggcaaccc 2280
aaggaacat ttgcttaaac ctgggacatc tcaccttttt aaatcctaaa aaacactggc 2340
agttatattt taaattagtt tttattttta tgatgggttt atcaaaaagac ttttattatt 2400
agattgggac ccccttcaaa cctaaaaatc aagttatttc cttttataat acttttcttc 2460
cccattggaac aaatgggac aatttgtag ttttttccct taatgataac taaaatccct 2520
ctaatttctc atttatgctt ttgtctttt tatgaaatat ttctttttaa agccccagtc 2580
tcacctcaga aatatgaaga gcaaaaagct attttgctta cttgctaacc tgttgggaaa 2640
gctctgtaga agcatggttcc agtgaggcca agattgaaat ttgatactaa aaaggccacc 2700
tagctttttg cagataacaa acaagaaaagc tattccaaga ctcatgatgat gccagctgtc 2760
tcccacgtgt gtattatggt tcaccagggg gaactggcaa aagtgtgtgt ggggagggga 2820
agggtgtgtg agtggttctg agcaaataac tacagggtgc ccattaccac tcaagaagac 2880
acttcacgta ttcttgatc aaattcaata atcttaaaca atttgtgtag aagtccacag 2940
acatctttca accacctttt aggtgcata tggattgcca agtcagcata tgaggaatta 3000
aagacattgt tttttaaaaa aaaaaatcat ttagatgcac ttttttgtgt gttcttttaa 3060
taaattccaaa aaaaatgtga aaaaaaaaaa aaaaaaaagt cgacgcggc 3109

```

<210> 545

<211> 1176

<212> DNA

<213> Homo sapiens

<400> 545

```

cgccctcccta taagacaaag cgcggccgac gggctccgag cgcggcccct gggttcgaac 60

```

```

acggcaccgc cactgcgcgt catggtgcag gcctggtata tggacgacgc cccgggcgac 120
ccgcggcaac cccaccgccc cgaccccggc cgcccagtg gcctggagca gctgcggcgg 180
ctcggggtgc tctactggaa gctggatgct gacaaatatg agaatgatcc agaattagaa 240
aagatccgaa gagagaggaa ctactcctgg atggacatca taaccatatg caaagataaa 300
ctaccaaatt atgaagaaaa gattaagatg ttctacgagg agcatttgca cttggacgat 360
gagatccgct acatcctgga tggcagtggt tacttcgayg tgagggacaa ggaggaccag 420
tgatccgga tcttcatgga gaaggagag atggtgacgc tccccgcgg gatctatcac 480
cgcttcacgg tggacgagaa gaactacac aaggccatgc ggctgtttgt gggagaaccg 540
gtgtggacag cgtacaaccg gcccgctgac cattttgaag cccgcgggca gtacgtgaaa 600
tttctggcac agaccgccta gcagtgcct ctgggaacta acacgtgcct cgtaaaggct 660
cccaatgtaa tgactgagca gaaaatcaat cactttctct ttgcttttag aggatagcct 720
tgaggctaga ttatctttcc tttgtaagat tatttgatca gaatattttg taatgaaagg 780
atctagaaaag caacttgga gtgtaaagag tcaccttcac tttctgtaac tcaatcaaga 840
ctggtgggtc catggccctg tgtaggttca tgcattcagt tgagtcccaa atgaaagttt 900
catctcccga aatgcagttc cttagatgcc catctggacg tgatgccgcg cctgccttgt 960
aagaaggtgc aatcctagat aacacagcta gccagataga agacactttt ttctccaaaa 1020
tgatgccttg gggtagggag tggtaggggg aagagctccc accctaaggg gcacacactg 1080
agttgcttat gccacttcct tgttcaaaat aaagtaactg ccttaatctt aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1176

```

<210> 546

<211> 1735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 546

```

cttccactgn gccgcccact acagcctgcc cgacggccgc cacggccgcc tggacagccc 60
caccttccac ctcaccctgc actatcccac ggagcacgtg cagttctggg tgggcagccc 120
gtccacccca gcaggctggg tacgcgaggg tgacactgtc cagctgctct gccgggggga 180
cggcagcccc agcccggagt atacgctttt ccgccttcag gatgagcagg aggaagtgct 240
gaatgtgaat ctcgagggga acttgaccct ggaggagtg acccggggcc agagcgggac 300
ctatggctgc agagtggagg attacgacgc ggcagatgac gtgcagctct ccaagacgct 360
ggagctgcgc gtggcctatc tggacccctt ggagctcagc gaggggaagg tgctttcctt 420
acctctaaac agcagtgcag tcgtgaactg ctccgtgcac ggcctgccc aacctgcctt 480
acgctggacc aaggactcca ctcccctggg cgatggcccc atgctgtcgc tcagttctat 540
caccttcgat tccaatggca cctacgtatg tgaggcctcc ctgcccacag tcccggctct 600
cagccgcacc cagaacttca cgctgctggt ccaaggctcg ccagagctaa agacagcgga 660
aatagagccc aaggcagatg gcagctggag ggaaggagac gaagtcacac tcatctgctc 720
tgcccgcggc catccagacc ccaaactcag ctggagccaa ttggggggca gccccgcaga 780
gccaatcccc ggacggcagg gttgggtgag cagctctctg accctgaaag tgaccagcgc 840
cctgagccgc gatggcatct cctgtgaagc ctccaacccc cacgggaaca agcgccatgt 900
cttccacttc ggcaccgtga gccccagac ctcccaggct ggagtggccg tcatggccgt 960
ggccgtcagc gtgggcctcc tgctcctcgt cgttgctgtc ttctactgcg tgagacgcaa 1020
agggggcccc tgctgccgcc agcggcgagg gaagggggct ccgccgccag gggagccagg 1080
gctgagccac tcggggtcgg agcaaccaga gcagaccggc cttctcatgg gagggtgcctc 1140
cggaggagcc aggggtggca gcgggggctt cggagacgag tgctgagcca agaacctcct 1200

```

```

agaggctgtc cctggacctg gagctgcagg catcagagaa ccagccctgc tcacgccatg 1260
ccgcgccccg ccttccctct tccctcttcc ctctccctgc ccagccctcc cttccttcct 1320
ctgccggcaa ggcagggacc cacagtggct gcctgcctcc gggagggaag gagagggagg 1380
gtgggtgggt gggagggggc ctctctccag ggaatgtgac tctcccaggc cccagaatag 1440
ctcctggacc caagcccaag gccagcctg ggacaaggct ccgagggtcg gctggccgga 1500
gctattttta cctcccgctt cccctgctgg tccccccacc tgacgtcttg ctgcagagtc 1560
tgacactgga ttcccccccc taccctcgcc cctgggtcca ctctgcccc cgcctacct 1620
ccgccccacc ccatcatctg tggacactgg agtctggaat aaatgctgtt tgtcacatca 1680
amaaaaaaaaa aaaaaaaaaatt cgrggggggc cgggtacca atttgagga tggga 1735

```

<210> 547

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<400> 547

```

acccacgcgt ccggcgccg tgtgggtgag ttggtgcgg gtgagttggg tgccggtgga 60
gtcgtgttgg tcctcagaat cccgcgtas cgtgcctcc tcctaccctc gccatgtttc 120
ttaccgggtc tgagtacgac aggggcgtga atactttttc tcccgaagga agattatttc 180
aagtgaata tgccattgag gctatcaagc ttggttctac agccattggg atccagacat 240
cagaggggtg gtgcctagct gtggagaaga gaattacttc cccactgatg gagcccagca 300
gcattgagaa aattgtagag attgatgctc acatagggtg tgccatgagt gggctaattg 360
ctgatgctaa gactttaatt gataaagcca gagtggagac acagaaccac tggttcacct 420
acaatgagac aatgacagtg gagagtgtga cccaagctgt gtccaatctg gctttgcagt 480
ttggagaaga agatgcagat ccaggtgcca tgtctcgcc ctttggagta gcattattat 540
ttggaggagt tgatgagaaa ggaccccgagc tgtttcatat ggacccatct gggacctttg 600
tacagtgtga tgctcgagca attggctctg cttcagaggg tgcccagagc tccttgcaag 660
aagtttacca caagtctatg actttgaaag aagccatcaa gtcttcactc atcatcctca 720
aacaagtaat ggaggagaag ctgaatgcaa caaacattga gctagccaca gtgcagcctg 780
gccagaattt ccacatgttc acaaaggaag aacttgaaga ggttatcaag gacatttaag 840
gaatcctgat cctcagaact tctctgggac aatttcagtt ctaataatgt ccttaaattt 900
tatttccagc tcctgttcct tggaaaatct ccattgtatg tgcatttttt aaatgatgtc 960
tgtacataaa ggcagttctg aaataaagaa aattttaaaa taaaaaaaaa aaaaaaaaaa 1020
tcgggggtcg cggtttcgat aangcttg 1048

```

<210> 548

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (724)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (727)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (734)
 <223> n equals a,t,g, or c

<400> 548

```
ctaaaggtaa caaaagctgg agctccaccg cgggtggcggc cgctctagaa ctagtggatc 60
ccccgggctg tttggtttga gcgctcgccg tcttttggcg gcagcggcga cgcgagggct 120
cccggccgcc cgcgtccgct gggaatctag cttctccagg actgtggtcg ccccgctccgc 180
tgtggcggga aagcggcccc cagaaccgac cacaccgtgg caagaggacc cagaacccga 240
ggacgaaaac ttgtatgaga agaaccacaga ctcccatggt tatgacaagg accccgtttt 300
ggacgtcttg aacatgcgac ttgtcttctt ctttggcgtc tccatcatcc tggtocttgg 360
cagcaccttt gtggcctatc tgccctgacta caggtgcaca ggggtgtcaa gagcgtggga 420
tgggatgaaa gagtgggtccc gccgcgaagc tgagaggcct gtgaaatacc gagaggccaa 480
tggccttccc atcatggaat ccaactgctt cgaccccagc aagatccagc tgccagagga 540
tgagtgacca gttgctaagt ggggctcaag aagcaccgcc ttccccaccc cctgcctgcc 600
attctgacct cttctcagag cacctaatta aaggggctga aagtctgaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgnc 720
ctantntaa atcncg 736
```

<210> 549
 <211> 2231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2224)
 <223> n equals a,t,g, or c

<400> 549

```
ttaaaacagg aactgttgga attattctag ctgtaactac ctattggcta tgtgttgatt 60
gaycctagaa agraanaata atttttcatt ttagatcttg attgaattta agatgtattt 120
atatgcctac aaaaggtctg tcttgtaact gttgtataaa ataaacctaa tctatggttt 180
catttttaat ctaaaaaaag ttgtgcctta acaatagggc attgtatggt aataagggaa 240
aacaaccttt ttagtagatg ggggaaaata ggaacttttt gccattaaaa cttaagtctt 300
tttgatgttt ttaataattat agttggggga gattcattaa aattaaattg aaataaaatt 360
atttttgcac aacctagcat ttacaactaa agtatgtttt ttataagaac tggcatcttg 420
atgtatatag gtctgaaata atatttcac ttttgatttt taattttaat aatattagac 480
caggatagat cacagtttta caaatcttag ttttaataaa attatttcag tgtgctgtta 540
gtcctctaca gtcatttttg ttaaaaaagt gactatttat ttatggtagc atatcaataa 600
tttattaatg ttaaaaaata ctgtgtatga cattacmaac cagaacagtt cctgggggag 660
```

```

aggattctaa ttgattggca gttctgagag ggcaagaaga atggaacttt atacttcaaa 720
aggagggtttt ggtttttacca ggtactgctt atgtaaatcg tttattttta tttcatcaaa 780
gcctggcaag tatatgcatt ccaatttacc attggcaaag ctttatttat ttttaagggtt 840
ggatgttgaa ttaattttgt gggaaaatga gatttgtaag tagttttctt tctagataag 900
ataacataaaa ccaaactttc agaagttaag gatgatgaat aatattgaaa tgacttggtta 960
tatattgtaa gggttccctt aagtatcata attaacaatt tgtggaaatt gaaaaagcat 1020
aaactgtggt atttgattag taatatgttc ccttaaaatt cattttgagg tgtatgttat 1080
acacacagta aatttttggt caggaatgac ttgctcattc tgtgttttta aaaataggaa 1140
ataaggcata gtgagtcac attacatcaa ttaacaaaaa aatatttcat cccctccgtg 1200
cactgaaatt atctacttca gccaccttct ttattctcgt gttaggaggg cacgtttatg 1260
gactttttta tttccatgtg ccatattgtc cactaccggc agtagccaaa gctagctgtt 1320
tcagtcccac agaagagaca gtgctctgcc atgatgacag ggcactgcta gggctgggtt 1380
ttctgtgttt tcccttttggt cagtgtggac ttcaggaact agatgtatat gcacaaggga 1440
ttgagtttac actaaaacta ggaaatggag ttttcaatct atgttcttgc ctcttcatac 1500
ttttatttat tttttgtcat cctgccttat actgggctaa caatgagata aaataaaaaat 1560
acctttgaat actcttttcc ctttcatgca tttaaagcca tggaggaact agaccattag 1620
ctgttgccgt cacatgttta gacaccagtt tacttagcgt gttatgacct tcttcaccca 1680
tactacaaa tttaaatggg tcccgacttc accctctgga aggaagtaaa ctcttctctc 1740
cccattgggt cagagcagtt tttacctgca agcaccatct ctgtatgtgc tcttactaga 1800
ttatacagtt cttgagaggg attgcatctt ggtgtttttg tatttccacc tcacccccag 1860
cacatagccc agtctcttgc acaaattaag tacttaatgt gtgttgagct aaattgaata 1920
aaggattatt agcattagca tattttgtgc cttggttgta taagctgggt gtttggtttg 1980
ttacctttgc aaatatttat gattatcacc cccccacata cttaaattgtt tttaaaagtt 2040
ttgcctttcc ttcagatact accccaggca atttgctgta gataatgtga ttgcttccaa 2100
tgacataatt atcccaaaact ctctgccccg gatatacttt gccaaacgaa atttgaattc 2160
tctgaataaa ttggtcatgt ctaaaaaraa aaaaaaaaaa aaaaaactcg gggggggggc 2220
cggnacccaa t 2231

```

<210> 550

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 550

```

cccacgcgtc cgtagcggcg ccggtgagtc cgcgtgtgga agtctgtgag gcgcagaggt 60
ggggcaggcc gtctgrctag ctaggcggct gggagcgttt tcgtggcggg gaacggaggt 120
tgaattgccc tgctgggct catagggag gaggatgtga aggagcttgt gaaggcagag 180
gaagattatt gaataataaa atacagtttt gaaaaaaatg gatgaagaac ctgaaagaac 240
taagcgatgg gaaggaggct atgaaagaac atgggagatt cttaaagaag atgaatctgg 300
atcacttaaa gctacaatag aagacattct attcaaggca aagagaaaaa gagtatttga 360
gcaccatgga caagttcgac ttggaatgat gcgccacctt tatgtggtag tagatggatc 420
aagaacaatg gaagaccaag atttaaagcc taatagactg acgtgtactt taaagttggt 480
ggaatacttt gtagaggaat attttgatca aaatcctatt agtcagattg gaataattgt 540
aactaagagt aaaagagctg aaaaattgac tgaactttca ggaaacccaa gaaaacatat 600
aacgtctttg aagaaagctg tggatatgac ctgccatgga gagccatctc tttataattc 660
cctaagcata gctatgcaga ctctaaaaca catgcctgga catacaagtc gagaagtact 720
aatcatcttt agcagcctta caacttgcca tccatctaata atttatgaty taatcaagac 780
cctaaaggca gctaaaatta gagtatctgt tattggattg tctgcagaag ttcgcgtttg 840
cactgtactt gctcgtgaaa ctggtggcac gtaccatggt attttagatg aaagccatta 900
caaagagttg ctcacacatc atgttagtcc tctcctgct agctcaagtt ctgaatgctc 960
acttattcgt atgggatttc ctcagcacac cattgcttct ttatctgacc aggatgcaaa 1020

```

```

accctctttc agcatggcgc atttggatgg caatactgag ccaggggctta cattaggagg 1080
ctattttctgc ccacagtgtc gggcaaagta ctgtgagcta cctggtgaat gtaaaatctg 1140
tgggtcttact ttggtgtctg ctccccactt ggcacgggtct taccatcatt tgtttccttt 1200
ggatgctttt caagaaattc ccctagaaga atataatgga gaaagatttt gttatggatg 1260
tcagggggaa ttgaaagacc aacatgttta tgtttgtgct gtgtgccaaa atgttttctg 1320
tgtggactgt gatgtttttg ttcattgattc tctacactgt tgccctggct gtattcataa 1380
gattccagct ccttcagggtg tttgattcca gcatgtagta tacattgtat gtgttaaaaa 1440
gaaatttgca actgtgaata aaaggacttc tttagaagaa gcttcattta aaacatgaaa 1500
ggataatctg acttaagaaa ctttttgcta agaaaaggta atattttatt aaattttaaa 1560
tttgtgttgt cacagaaata cctgaaattc agtagtactt cattcaatta attttgtttt 1620
ctattatttt gagttatact gttttcaaag tcattatgca gtatgtataa acttataaga 1680
attaaattga tgtgataatt ttatgttttt ataattaaat atagaatctt tatgatttat 1740
gttaattcat taatttagtg taagaagaaa gttaagtctg aatgtaaatt cagtgtgaaga 1800
tgaaaattta tcaata 1816

```

<210> 551

<211> 2610

<212> DNA

<213> Homo sapiens

<400> 551

```

gcctgaagga ctgcctcggt tcaacaacaa ctttatggct cccggaagtg cctcctcccc 60
gtccccctcc tttccagcct cagccccgtg ggctgcagtt ggaacgatgg cggcggcagc 120
tgccgcccgg cctagccccg ggtctggacc tggggactcc ccagaagggc ccgaggggga 180
ggctccggag cgctggcgga aggcgcacgg gatgctgaag ctttactacg gcctctcgga 240
aggggagggc gcgggacgcc ccgcggggcc cgacccccctg gaccgcactg atctgaacgg 300
ggcgcaactc gacccggaag tttacctaga caagctgcgt agagagtgcc ctctggccca 360
gttgatggac agtgagacgg acatggtgct gcagatccgg gctctagaca gcgacatgca 420
gacctgggtc tatgagaact acaacaagtt catctcagcc acagacacca tccggaagat 480
gaagaacgat ttccggaaga tggaggatga gatggaccgg ctggccacca acatggcagt 540
gatcaccgac ttcagcgctc gcatcagcgc cagctgcag gaccgccacg agcgcatcac 600
caagctggca ggggtccacg cgctgctgct gaagtgcag ttctcttttg agctgcccctc 660
cgccctcacc aagtgcgtgg aactgggcgc ctatgggcag gcggtgcgct accagggccg 720
cgcgagggcc agtctgcagc agtaccaaca cctgccctcg ttccgcgcca tccaggacga 780
ctgccaggtc atcacggccc gcctggccca gcagctgcgg cagcgcttta gggagggcgg 840
ctcaggcgcc ccggagcagg cagagtgcgt ggagctgctg ctggccctgg gcgagcctgc 900
ggaggagctg tgcgaggagt tctggcgac gcccgcggcc ggctggagaa ggagctgaga 960
aacctggagg ccgagctggg gccctcacct ccggctcccc acgtgttaga gttcaccgac 1020
catggaggca gtggcttcgt gggcgccctc tgccagggtg cggcggccta ccaggagctg 1080
tttgcgcccc agggccagc aggtgccgag aagctggcgg ccttcgcccc gcagctgggc 1140
arccgctatt ttgcgtggt ggagcggcgg ctggcgagg agcaggggtg tggtgacaac 1200
tactgctgg tgccggcgct ggaccggttc caccggcgct tgccgggctcc cggggccctg 1260
ctggccgctg ccgggctcgc agacgctgcc acggagatcg tggaacgagt ggcccgcgag 1320
cgccctgggc accacctgca ggtctccgg gcggccttcc tgggctgcct gacagacgtc 1380
cgccaggcgc tggcagcacc tcgctggct ggggaaggag gccctggcct ggccgagttg 1440
ctggccaatg tggccagctc catcctgagc cacattaagg cctctctggc agcagtgcac 1500
cttttcaccg ccaaagaggt gtccttctcc aacaagccct acttccgggg tgagttctgc 1560
agtcaggggtg tccgtgaggg cctcatcgtg ggctctgctc actctatgtg ccagacggct 1620
cagagcttct gcgacagccc tggggagaag gggggtgcca caccacctgc cctgctcctg 1680
ctgctctccc gcctctgcct ggactacgag acggccacca tctcctacat cctcactctc 1740
actgatgaac agtttctggt gcaggatcag tccccagtga cggccgtgag cagctgtgt 1800

```

```

gcagaggcca gggaaacggc gcggcggctg ctgaccact acgtgaaggt gcagggcctg 1860
gtcatatcac agatgctgcg caagagcgtg gagactcgcg actggctcag cactctggag 1920
ccccggaatg tgcgggccgt catgaagcgg gtggtggagg ataccaccgc catcgacgtg 1980
caggtggggc tcctgtacga agagggtgtt cgcaaggccc agagcagcga ctccagcaag 2040
aggactttct ccgtgtacag cagctctcgg cagcaggggc gctacgcccc cagctataacc 2100
cccagtggcc cgatggacac caacctcttg agcaatatcc agaagctatt ctctgaacgt 2160
attgatgtgt tcagccctgt ggagtccaac aagggtgctg tgctgaccgg catcatcaag 2220
atcagcctga agacgctgct ggagtgtgtg cggctgcgca cctttgggcg cttcgggctg 2280
cagcaggtgc aagtggactg ccactttctg cagctctacc tgtggcggtt tgtggccgac 2340
gaagaactcg tgcaactgct gctggacgaa gtggtggcct ctgctgccct gcgctgcccc 2400
gaccctgtgc ccatggagcc cagtgtggtt gaggtcatct gcgagcgcgg ctaggcgcag 2460
ccgctgccat gcaccggtct gtccctgcac cccatggcac ccaggatctg gtctcgggtg 2520
tccttccccg caggcaggtg tcaggaccgg cctaataaac atgtgtggcc tcctcaaaaa 2580
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2610

```

<210> 552

<211> 4021

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4000)

<223> n equals a,t,g, or c

<400> 552

```

atcttctttt cccctctcat cagagccctt ccagggtctc tacaagggtg tggtacagaa 60
gaaatcaggt ggaaggacag agcacccttt caccgtggag gaatttggtc ttcccaagtt 120
tgaagtacaa gtaacagtgc caaagataat caccacttg gaagaagaga tgaatgtatc 180
agtgtgtggc ctatacacat atgggaagcc tgtccctgga catgtgactg tgagcatttg 240
cagaaaagta agtgacgctt ccgactgcca cgggtgaagat tcacaggctt tctgtgagaa 300
attcagtggg cagctaaaca gccatggctg cttctatcag caagtaaaaa ccaaggctct 360
ccagctgaag aggaaggagt atgaaatgaa acttcacact gagggcccaga tccaagaaga 420
aggaacagtg gtggaattga ctggaaggca gtccagtga atcacaagaa ccataaccaa 480
actctcattt gtgaaagtgg actcacactt tcgacaggga attcccttct ttgggcaggt 540
gcgcctagta gatgggaaag gcgtccctat accaaataaa gtcataattca tcagaggaaa 600
tgaagcaaac tattactcca atgctaccac ggatgagcat ggccttgtag agttctctat 660
caacaccacc aatgttatgg gtacctctct tactgttag gtcaattaca aggatcgtag 720
tccttggtac ggctaccagt ggtgtcaga agaacacgaa gaggcacatc acactgctta 780
tcttggtgtc tccccaagca agagctttgt ccaccttgag cccatgtctc atgaactacc 840
ctgtggccat actcagacag tccaggcaca ttatatctg aatggaggca cctgctggg 900
gctgaagaag ctctccttct attatctgat aatggcaaa ggaggcattg tccgaactgg 960
gactcatgga ctgcttggtg agcaggaaga catgaagggc catttttcca tctcaatccc 1020
tgtgaagtca gacattgtc ctgtcgctcg gttgtctatc tatgtgttt tacctaccgg 1080
ggacgtgatt ggggattctg caaaatatga tgttgaaaat tgtctggcca acaagggtgga 1140
tttgagcttc agcccatcac aaagtctccc agcctcacac gccacctgc gagtcacagc 1200
ggctcctcag tccgtctgcg ccctccgtgc tgtggaccac agcgtgctgc tcatgaagcc 1260
tgatgctgag ctctcggcgt cctcgggtta caacctgcta ccagaaaagg acctcactgg 1320
cttccctggg cctttgaatg accaggacga tgaagactgc atcaatcgtc ataattgtct 1380
tattaatgga atcacatata ctccagtatc aagtacaaat gaaaaggata tgtacagctt 1440
cctagaggac atgggcttaa aggcattcac caactcaaa attcgtaaac ccaaatgtg 1500

```

tccacagctt caacagtatg aaatgcatgg acctgaaggt ctacgtgtag gtttttatga 1560
gtcagatgta atgggaagag gccatgcacg cctggtgcat gttgaagagc ctcacacgga 1620
gaccgtacga aagtacttcc ctgagacatg gatctgggat ttggtggtgg taaactcagc 1680
aggtgtggct gaggtaggag taacagtccc tgacaccatc accgagtggg aggcaggggc 1740
cttctgcctg tctgaagatg ctggacttgg tatctcttcc actgcctctc tccgagcctt 1800
ccagcccttc tttgtggagc tcacaatgcc ttactctgtg attcgtggag aggccttcac 1860
actcaaggcc acggtcctaa actaccttcc caaatgcacg cgggtcagtg tgcagctgga 1920
agcctctccc gccttcctag ctgtcccagt ggagaaggaa caagcgctc actgcatctg 1980
tgcaaacggg cggaactg tgctctgggc agtaacccca aagtcattag gaaatgtgaa 2040
tttactgtg agcgcagagg cactagagtc tcaagagctg tgtgggactg aggtgccttc 2100
agtctctgaa cacggaagga aagacacagt catcaagcct ctgttggttg aacctgaagg 2160
actagagaag gaaacaacat tcaactccct actttgtcca tcaggtggtg aggtttctga 2220
agaattatcc ctgaaactgc caccaaagt ggtagaagaa tctgcccag cttctgtctc 2280
agttttggga gacatattag gctctgccat gcaaaacaca caaatcttc tccagatgcc 2340
ctatggctgt ggagagcaga atatggctct ctttgcctct aacatctatg tactggatta 2400
tctaaatgaa acacagcagc ttactccaga gatcaagtcc aaggccattg gctatctcaa 2460
cactggttac cagagacagt tgaactacaa acactatgat ggctcctaca gcacctttgg 2520
ggagcgatat ggcaggaacc agggcaacac ctggctcaca gcctttgttc tgaagacttt 2580
tgcccaagct cgagcctaca tcttcatcga tgaagcacac attaccaag ccctcatatg 2640
gctctcccag aggcagaagg acaatggctg tttcaggagc tctgggtcac tgctcaacaa 2700
tgccataaag ggaggagtag aagatgaagt gacctctctc gcctatatca ccatcgccct 2760
tctggagatt cctctcacag tcaactaccc tgttgcctgc aatgccctgt tttgcctgga 2820
gtcagcctgg aagacagcac aagaagggga ccatggcagc catgtatata ccaaagcact 2880
gctggcctat gcttttgccc tggcaggtaa ccaggacaag aggaaggaag tactcaagtc 2940
acttaatgag gaagctgtga agaaagacaa ctctgtccat tgggagcgcc ctcagaaacc 3000
caaggcacca gtggggcatt tttacgaacc ccaggtctcc tctgctgagg tggagatgac 3060
atcctatgtg ctctctgctt atctcacggc ccagccagcc ccaacctcgg aggacctgac 3120
ctctgcaacc aacatcgtga agtggatcac gaagcagcag aatgcccgag gcggtttctc 3180
ctccacccag gacacagtgg tggctctcca tgctctgtcc aaatatggag cagccacatt 3240
taccaggact ggggaaggctg cacaggtgac tatccagtct tcagggacat tttccagcaa 3300
attccaagtg gacaacaaca accgcctggt actgcagcag gtctcattgc cagagctgcc 3360
tggggaatac agcatgaaag tgacaggaga aggatgtgtc tacctccaga catccttgaa 3420
atacaatatt ctcccagaaa aggaagagtt ccccttgct ttaggagtg agactctgcc 3480
tcaaacttgt gatgaaccca aagccacac cagcttccaa atctccctaa gtgtcagtta 3540
cacagggagc cgctctgcct ccaacatggc gatcgttgat gtgaagatgg tctctggctt 3600
cattcccctg aagccaacag tgaaaatgct tgaaagatct aacctatgta gccggacaga 3660
agtcagcagc aacctatgtct tgatttacct tgataagggtg tcaaatacaga cactgagctt 3720
gttcttcacg gttctgcaag atgtcccagt aagagatctg aaaccagcca tagtgaaagt 3780
ctatgattac tacgagacgg atgagtttgc aattgctgag tacaatgctc cttgcagcaa 3840
agatcttgga aatgcttgaa gaccacaagg ctgaaaagtg ctttgcctgga gtctgttct 3900
cagagctcca cagaagacac gtgtttttgt atctttaaag acttgatgaa taaacacttt 3960
ttctggtcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggc cggaacccaa 4020
t 4021

<210> 553

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 553

tggttttgag gtgctcaatt ggaataaaaa tattccaatc tatttgagga ccaaaggcaa 60

```

aatcrgtttt cttacetttg gaattattcg taccttttat ggtaaatttc agctttgaca 120
tgtattatga ggaacgtacc aaaaaccggt ttgtaacaaa tctgtagaga aggtctgaat 180
ctatcgtgtt tgccttttca ggtgccattt ctactgccta atacagtgcc atttgccctg 240
tgaagaccca taaacattca ttgtgttgaa tgtaagatag agactctccc tagtcttact 300
gatctcagta cccacaaaat gattaagaat gatatgaaaa ccagcagcta aggaacatct 360
tattatttag ttgtagcata ttcataacaa gtgtccttca aggataaaca tatattctct 420
at ttgtattt agcaagtaaa acttgtgttg accttttagtg cattatatc agcttttaac 480
agtattatgt atgtactgga aagcaaagaa atcttagagt cttggacatt gtttatttgt 540
gcaacaacta gaaaggagca atgaagtta tttcagttgt atttttccct aagcacaatc 600
tgcaatagtt tatgtatgac agagataatt caaaaaggaa aactatatat aaaagttgta 660
tataaagttt gtctctgaaa tatttctttg aagtttttaa aaaattgact catgtttaaa 720
aacaataaca catattcaga gcattggact tttttaactt gttttcatct gtttatcatg 780
acttttttat ttctgtgtga gagtccacat tatttagttt gttgtacttt taaatttcaa 840
agttcaaatc tgaagaatta gcgtttgtga tttcgggata ccatgcagtg gttttaatcc 900
caggaaaaaa actatcaaca aaagttcggt tgattctcat tatgtaactt tgtagaacca 960
tcctttctag atgggtccac cacagtgaat ttgtaacttt gaagtcagga tagaatatca 1020
ttagattatc tgtgagatag cattactatg ttaggaccag cagagtttg gttggtaaaa 1080
ataatgtttg ctctattact gggttacaga catttcagca tttttagggt gggtttaaat 1140
cactaaaaat atttattcgg atttgaagga ttttaagtgt aaaaatcaat ccatttcttg 1200
cccttcaata attgtccatg cctgcctttt gttgtttaca tgctcttctg cccagactgt 1260
tagtaatcta gggaccccc ttggagctga taagtacagt tcagcctttt ctccctcaaat 1320
atataatgac ttttaacattc ctaagaatat aggtatttct gaatgattta aatttgagga 1380
attttaatac ataaaataca atgtacaaac tttctgccca ctcagatctc ttctccatca 1440
tgtacttagt atttcccat aacctacaca ctgattttta tgctactcct tgtagaaaca 1500
aaattctggt ttgactcagt ttttgtgttt ataaactttt ggaatgtgta ccccgtttat 1560
gtgaagaatt atgacctatc agtcatagct aaatagtgaa cctcaaaagt gtttaacttt 1620
gactattcat gtgaggtttg gtatcttgca tttatgtaca tggctgtaaa ttatgtgcat 1680
ttactctgta tttatgttat ctatctgact tttacttgaa ttgttcaaat tttaaaaatt 1740
aaaatacgct catgaaaata tggctttttc tgtaaaaaaa 1780

```

<210> 554

<211> 3713

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3006)

<223> n equals a,t,g, or c

<400> 554

```

ccgnacgcgt gggattcacg gcgaaatgag actgttcgtg agtgatggcg tcccgggttg 60
cttgccgggtg ctggccgccg ccgggagagc ccggggcaga gcagaggtgc tcatcagcac 120
tgtaggcccc gaagattgtg tgggtccgtt cctgaccccg cctaagggtc ctgtcttgca 180
gctggatagc ggcaactacc tcttctccac tagtgcaatc tgccgatatt ttttttgtt 240
atctggctgag gagcaagatg acctcactaa ccagtggctg gaatgggaag cgacagagct 300

```

gcagccagct ttgtctgctg ccctgtacta tttagtggtc caaggcaaga agggggaaga 360
tggtcttggg tcagtgcgga gagccctgac tcacattgac cacagcttga gtcgtcagaa 420
ctgtcctttc ctggctgggg agacagaatc tctagccgac attgttttgt ggggagccct 480
ataccatta ctgcaagatc ccgcctacct ccctgaggag ctgagtgcc tgcacagctg 540
gttccagaca ctgagtaccc aggaaccatg tcagcgagct gcagagactg tactgaaaca 600
gcaagggtgc ctggctctcc ggccttacct ccaaaagcag cccagccca gccccgctga 660
gggaagggtg gtcaccaatg agcctgagga ggaggagctg gctaccctat ctgaggagga 720
gattgctatg gctgttactg cttgggagaa gggcctagaa agtttgcccc cgctgcggcc 780
ccagcagaat ccagtgttg ctgtggctgg agaaaggaat gtgctcatca ccagtgccct 840
cccttacgtc aacaatgtcc cccaccttgg gaacatcatt ggttgtgtgc tcagtgccga 900
tgtctttgcc aggtactctc gcctccgcca gtggaacacc ctctatctgt gtgggacaga 960
tgagtatggg acagcaacag agaccaaggc tctggaggag ggactaacc cccaggagat 1020
ctgcgacaag taccacatca tccatgctga catctaccgc tggtttaaca tttcgtttga 1080
tatttttggg cgcaccacca ctccacagca gacaaaatc acccaggaca tttccagca 1140
gttgctgaaa cgaggttttg tgctgcaaga tactgtggag caactgcgat gtgagcactg 1200
tgctcgcttc ctggctgacc gcttcgtgga gggcggtgtg cccttctgtg gctatgagga 1260
ggctcggggt gaccagtgtg acaagtgtgg caagctcatc aatgctgtcg agcttaagaa 1320
gcctcagtgt aaagtctgcc gatcatgcc tgtggtgcag tcgagccagc acctgtttct 1380
ggacctgcct aagctggaga agcgactgga ggagtgggtg gggaggacat tgcctggcag 1440
tgactggaca ccaatgccc agtttatcac ccgttcttg ctccgggatg gcctcaagcc 1500
acgtgcata acccgagacc tcaaatgggg aaccctgtg cccttagaag gttttgaaga 1560
caaggatttc tatgtctggg ttgatgccac tattggctat ctgtccatca cagccaacta 1620
cacagaccag tgggagagat ggtggaagaa cccagagcaa gtggacctgt atcagttcat 1680
ggccaaagac aatgttccct tccatagctt agtctttcct tgctcagccc taggagctga 1740
ggataactat accttggtea gccacctcat tgctacagag tacctgaact atgaggatgg 1800
gaaattctct aagagccgag gtgtgggagt gtttggggac atggccagg acacggggat 1860
ccctgctgac atctggcgct tctatctgct gtacattcgg cctgagggcc aggacagtgc 1920
ttctcctgg acggacctgc tgctgaagaa taattctgag ctgcttaaca acctgggcaa 1980
cttcatcaac agagctggga tgtttgtgtc taagtctctt gggggctatg tgcctgagat 2040
ggtgtcacc cctgatgatc agcgctgct ggcctatgtc accctggagc tccagcata 2100
tcaccagcta cttgagaagg ttcggatccg ggatgccttg cgcagtatcc tcaccatac 2160
tcgacatggc aaccaataa ttcaggtgaa tgagccctgg aagcggatta aaggcagtga 2220
ggctgacagg caacgggcag gaacagtgc tggcttggca gtgaatatag ctgccttgct 2280
ctctgtcatg cttcagcctt acatgccac ggtagtgcc acaatccagg cccagctgca 2340
gctcccacct ccagcctgca gtatcctgct gacaaacttc ctgtgtacct taccagcagg 2400
acaccagatt ggcacagtca gtcccttgtt ccaaaaattg gaaaatgacc agattgaaag 2460
tttaaggcag cgctttggag ggggccaggc aaaaacgtcc ccgaagccag cagttgtaga 2520
gactgttaca acagccaagc cacagcagat acaagcgctg atggatgaag tgacaaaaca 2580
aggaaacatt gtccgagaac tgaaagcaca aaaggcagac aagaacgagg ttgctgcgga 2640
ggtggcgaaa ctcttggatc taaagaaaca gttggctgta gctgagggaa acccctgaa 2700
gcccctaaag gcaagaagaa aaagtaaaag acctggctc atagaaagtc actttaatag 2760
atagggacag taataaataa atgtacaatc tctatataca agctgagacc tttccttttg 2820
tctactccaa gccttcccc tgctgtatgt ggattgaggg tcacatcatt ggcactagt 2880
agagggtagt cagttagcac ttctgggaaa ggtgggtagt gtggcccaag tgggggactg 2940
atgctcccaa ttgttcatgc ttggtgcaga ttcaccattc ggtcaatcag agctcggcga 3000
gtcgcntcta ctccctggg caggcgctcg atttctgct tgagccgttc attctcttca 3060
gctagctgtg ccactttcct ttcattctcc tgttctttct ccttcatgag ctgctttcca 3120
gcccgggctg gggaatgacc actctgtttc cgtttcttg ttctcccttg gtcttctcc 3180
tcttctcct ctgagcaggga gctctgactg gaatctggag agtgagggtg ctgggaggtg 3240
cttgtgacct ctgctgggtc tggctcctcc tcagtcagcc aagccagaga agcagggtca 3300
agagtgggtga agatttttga ttcttctct tcatttccag gaggtgaaac ataggtaccc 3360

```

ccattttcat ctgaagacag gacctcttgc aggtcctcat accaggcttc cagctcccag 3420
ctggacagtg tcccgaagga gaaaggcaat gactcagctg ccattctctgc agttggatca 3480
gtctggaaaa gcacatctgc aggataatgg ggagtggctg gaacaagctc catgtagcaa 3540
acagtctatg ccacaagtgg gcaagctggg ctgatgcctg ctttcagggtg tggatgatga 3600
tgaagataca ctcccttctt gaacactctc tcctcagggt ccagctctga ttttggtctt 3660
gtcgtgcca cccgctcatc tttaacatga tacgctcagt ccctgtgccg aat 3713

```

<210> 555

<211> 1997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1980)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1992)

<223> n equals a,t,g, or c

<400> 555

```

ggaaccggcg ccgcgcttgc tgctggtaac agggccttgc ctagtgggcc ttccctccca 60
ggctcgcctt cagtctccac tagagacagg actgaccagt tgctcttcct tccaagaacc 120
ttcgagatct gcggtctggg gtctggttga aagatggcgg ccctcaactac cctgtttaag 180
tacatagatg aaaatcagga tcgctacatt aagaaactcg caaaatgggt ggctatccag 240
agtgtgtctg cgtggccgga gaagagaggc gaaatcagga ggatgatgga agttgctgct 300
gcagatgtta agcagttggg gggctctgtg gaactggtgg atatcggaac acaaaagctc 360
cctgatggct cggagatccc gctccctcct attctgctcg gcaggctggg ctccgaccca 420
cagaagaaga ccgtgtgcat ttacgggcac ctggatgtgc agcctgcagc cctggaggac 480
ggctgggaca gcgagccctt caccctggtg gagcgagacg gcaagctgya tgggagaggt 540
tcgactgatg ataagggccg ggtggccggc tggataaacg ccctggaagc gtatcagaaa 600
acaggccagg agattcctgt caacgtccga ttctgcctcg aaggcatgga ggagtcaggc 660
tctgagggcc tagacgagct gatttttgcc cggaaagaca cattctttaa ggatgtggac 720
taygtctgca tttctgacaa ttactggctg ggaaagaaga agccctgcat cacctacggc 780
ctcaggggca tttgctactt tttcatcgag gtggagtgca gcaacaaaga cctccattct 840
gggggtgtac ggggctcggg gcatgaggcc atgactgatc tcattttgct gatgggctct 900
ttgggtggca agagggggaa catcctgatc cccggcatta acgaggccgt ggccgcccgc 960
acggaagagg agcacaagct gtacgacgac atcgactttg acatagagga gtttgccaag 1020
gatgtggggg cgcagatcct cctgcacagc cacaagaaag acatcctcat gcaccgatgg 1080

```



```

cgggtacccgt ctctgtccct ccatggcatc gaaggcgcct tctctgggtc tggggccaag 1140
accgtgattc ccaggaaggt ggttggaag ttctccatca ggctcgtgcc gaacatgact 1200
cctgaagtcg tcggcgagca ggtcacaagc tacctaacta agaagtttgc tgaactacgc 1260
agccccaatg agttcaaggt gtacatgggc cacgggtgga agccctgggt ctccgacttc 1320
agtcaccctc attacctggc tgggagaaga gccatgaaga cagtttttgg tgttgagcca 1380
gacttgacca gggaaggcgg cagtattccc gtgacctga cctttcagga ggccacgggc 1440
aagaacgtca tgctgtgcc tgtgggtca gcggatgac gagccactc ccagaatgaa 1500
aagctcaaca ggtataacta catagagga accaagatgc tggccgcgta cctgtatgag 1560
gtctcccagc tgaaggacta ggccaagccc tctgtgtgcc atctccaatg agaaggaatc 1620
ctgccctcac ctccacctt tccaacttgc ccagggaagt ggaggttccc tctttccttt 1680
ccctcttgtc aggtcatcca tgactttaga gaacagacac aagtgtatcc agctgtccac 1740
gggtggagct acccgttggg cttatgagt acctggagt acagctgagt caccctgggt 1800
aagttctcag agtggtcagg atggcttgac ctgcagaaga tacccaaggt ccaaaagcac 1860
aaggtctgcg ggaaagttct ggttgtncgg ctggggcacc acgggttcac amctatwaat 1920
cgaggcattt ttggggaggg ccaagacagg ngggtycatt ttagggcca gggrrtytn 1980
aggacaaagg cntaggg 1997

```

<210> 556

<211> 906

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (879)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (906)

<223> n equals a,t,g, or c

<400> 556

```

tcttcattctg tnaccacat ccattttctc atcttcgtct tgcctctgtgt cttctgtggt 60
gtctcagcgc ctgacagaat ctccgtgtgc tttggtggcc agccagtacg gatggtctgg 120
caacatggag agaatcatga aagcacaagc gtaccaaacy ggcaaggaca tctctacaaa 180
ttactatgag agtcagaaga aaacatttga aattaatccc agacaccgc tgatcagaga 240
catgcttcga cgaattaagg aagatgaaga tgataaaaca gttttggatc ttgctgtggt 300
tttgtttgaa acagcaacgc ttcggtcagg gtatctttta ccagacacta aagcatatgg 360
agatagaata gaaagaatgc ttcgcctcag tttgaacatt gaccctgatg caaagggtgga 420
agaagagccc gaagaagaac ctgaagagac agcagaagac acaacagaag acacagagca 480
agacgaagat gaagaaatgg atgtgggaac agatgaagaa gaagaaacag caaagggaatc 540
tacagctgaa aaagatgaat tgtaaattat actctcacca tttggatcct gtgtggagag 600
ggaatgtgaa atttacatca tttctttttg ggagagactt gttttggatg cccctaatac 660
cccttctccc ctgcactgta aaatgtggga ttatgggtca caggaaaaag tgggtttttt 720
agttgaattt ttttaacat tcctcatgaa tgtaaatttg tactatttaa ctgactatc 780

```

```

ttgatgtaaa atcttgtcat gtgtataaaa ataaaaaaga tcccaaataa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaanc ccccgggggg ggcccccccc 900
cccctn                                           906

```

<210> 557

<211> 3484

<212> DNA

<213> Homo sapiens

<400> 557

```

gggtatttgc aaatatgtag tttaattgta ttattgaact ctcatthttgg gggcttgggc 60
acattaacag attaatccat ctgtataggg cttttgctgt tggatagaat tttaattgtc 120
tacataaata tttgttttag gacccttaga ttttatctga atacacagat taggctttta 180
aacagatat atatgtcatt tttggcttaa ggagtttggc taagttagct tttcaactgg 240
cactgtatgg cagcattttt tggatgggt agcatggcac atggcgaaac ataaagcatt 300
ttactgtaca ggtaagggaat gtgccatgtt gttttaccta tctctcttct tctctcactc 360
ccatgcacac atcctgtgtg tattcagaga ccttcagaaa cattcatatt cattttcatg 420
agtcagcaaa agccctacgc ttgattccaa cagaatattt cctttacata ctttcttctc 480
ttaattttta caaaatttgt atggtaggtg taaaagaaaa tcatagtaac tgtaccatat 540
tattaacccc taaatcaaac ttttttggkc ttgtgkatct tgatttttct gtgtgcttta 600
tagtgaagca gccgacacga gtcgttgttc ataaaacagc ttttgaaagt tgagagcaca 660
cccctggaga accgactgtg cttgcttacg tttggttcat gacttaaaaa tcgagtacag 720
gagttattcc tgatgaagct aaagctttgt ctctgttggc accagctaag gcagtggcag 780
gtcttctgcc tgggtggtgga ctccctgcta ctccctaacc acttaccagc attggcgctg 840
ttccactggc tgctttgggg gctcctactc ttgatcctgc ccttgctgca cttgggcttc 900
ctggagcaaa cttgaactct cagtctcttg ctgcagatca gttgctgaag cttatgagta 960
ctgttgatcc caagtgaat catgtagctg ctggtctcgt ttcaccaagt ctgaaactcg 1020
atacctctag taaagaaata gaggaagcta tgaaaagagt acgagaagca cagtccttaa 1080
tttctgtgca tatagaacca gataagaaag aagaaaaaag aaggcattca agatcaagat 1140
cacgttctag gaggaggagg actccctcat cttctagaca caggcgggta agaagcagat 1200
cgagacggcg gtcacattct aagtctagga gtcggcgacg atccaaaagc ccaaggcgga 1260
gaagatctca ttccagagaa agaggtagaa ggtcaaggag cacatcaaaa acaagagaca 1320
aaaagaaaga agacaaagaa aagaaacggt ctaaaacacc accaaaaagt tacagcacag 1380
ccagacgttc tagaagtgca agcagagaga gacgacgacg aagaagcagg agtggcaca 1440
gatctcctaa aaagcctcgg tctcctaaaa gaaaattgtc ccgctcacca tcccctagga 1500
gacataaaaa ggagaagaag aaagataaag acaaagaaag aagtagggat gaaagagaac 1560
gatcaacaag caagaagaag aagagtaaag ataaggaaaa ggaccgggaa agaaaatcag 1620
agagtataaa agatgtaaaa caggttacac gggattatga tgaagaggaa caggggtatg 1680
acagtgaaga agagaaaaaa gaagagaaga aaccaataga aacagggttc cctaaaacaa 1740
aggaatgttc tgtggaaaag ggaactggtg attcactaag agaatccaaa gtgaatgggg 1800
atgatcatca tgaagaagac atggatatga gtgactgaat attgcctctg agggagtcca 1860
actgtatacc tgcacagtg tcattccttt gtgtgatttc ttaatgctgt atttgttcat 1920
ctcaaaccta gatgtataca gctctgagtt ataatgggt ataaagctcc tgttactcat 1980
attagttatt tacatcaaaa agctttttaga aaatgggtac aggtaaccaa ttcttgtcat 2040
ggtgaaatct gattgagtaa ccaagcagtt ttactattct ggtgctgctt cataacaaaa 2100
atgaaaagct gcatgcatct acagcaggca tggattgttt atgtcgtatg atatccttta 2160
ttaagtaagt tcacttatag tatttctata atttgattca ttgccgtaat agagccatgt 2220
aggaaatgca ctgattgcat gttattgttg caagaatata ctaaaatgtca ttaaaatcct 2280
ccaacatgat ggatctactt atgggtcttg ttgttgacat gacaaattaa cattcttata 2340
gttacatctg gaaatgagca tttgaaatag ataatccttt aagccttgtg gcaaaatttt 2400
tgtggccttt gtttaacttt gaaagggtat tatgcactaa ctttttttgg tggctaatta 2460

```

```

gggttttaaat acagaaacaa gatttcaaat aaaactgtct ttggcagtga gtaaatagca 2520
tattttgaag tagagttgta tactttttca taagatgttt gggaattttt ttcctgaagt 2580
aataatttat tccacatcta catcagtga agctatctac ctatcctgag tctatcttaa 2640
aggaaaaaaaa gaaaaaaacc ttatctcttg cccttatttt gaattttcca ctctttcatt 2700
aatttgtttt aagctccgtg ttggaaaaaa ggggtagtgc attttaaat gacctcata 2760
cgcttttaaa ataagacaaa tctacttgat aatgtacctt tatttgatct caagttgtat 2820
aaaaccaata aatttggtgt actgcagtag taatcttatg cacacggtga tttcatgtta 2880
tatatgcaaa gtaggcaact gttttcttag ttacagaagt ttcaagcttc acttttgtgc 2940
agtagaaaca aaagtaggct acagtctgtg ccatgttgat gtacagtttc tgaaattggt 3000
ttacaagact ttgataataa aacccttaaa cttatgttca tgttcctgta aaaccgtatt 3060
tgtatttatt tacgctactg aatgtatgac atttacctca ttcattttac aaattctttc 3120
cctttctgtc cacatatattc agtatagtaa aaagaggaag tctatcactg tagtgataat 3180
tgccatcaaa attgtcaaaa atgatttaat ttctatccaa aatagtcctt ttcttagctt 3240
agtatcattt tattgcttat tttttgtgtg ggaatggggg ttgataaagc aatgaacttt 3300
agtataaaca aatcccacct atatctagca aatttatatt ttcggtgaaa tacagatatt 3360
tgcccttctg gagtagtata gaagctgtca atatgtatct actgtacctg cccgggcggc 3420
cgctcgaaat tccagcacac tggcgccgt trctagggat ccgagcgagg tatcccatag 3480
aagt 3484

```

<210> 558

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<400> 558

```

ngcacaggna aaggaggtga aatcgctctg actcctgggg tccgtgtgct ctggtagaag 60
tgggcgacag tggctcaatt tctgatcagc agcttgagc ctagatgatg gcagccaaag 120
gaaagacttg gccagcgagg ctccctacca ctccgaaaaa agagagtggg ggtagcagg 180
gtctgctctg ctctggggat taaggggctg actagaagga tttgagtctt tccttctgtc 240
cactgccaca gggttcttgg agtaactgca ggtttaaact gcaggtctaa cttccagagg 300
ctgggggttc ctgcccccca gcttagagac attcctgarg tggctgaaga gcaggaagga 360
gaatgaatgc acttccagac tggccagag tctcagcccc tcctcttctt tgtttcccg 420
tggtccctct gggctgtacg gcccgatgg aggcctgagg aaaatgaggg ggctttgggt 480
ctccggaatt ccggccgggg ccacaccctc ctgtcttcag atggttcatg taccatccc 540
cccttcccg cctctccttt gtctcctctg tcaccgggac tcccagcaga gattttttt 600
tgtactggct gtgtaacagg acaccgcatg cagccctcag gaggggctct gtgcttctra 660

```

477

tgaaaaaggm aggcattgac ctccctctga ggcagtttcc aggccaccg tgggtgcacgc 720
aaaccacttc ctggccatgc gctccctcct gcttctcage gccttctgcc tcctggagge 780
ggccctcncg 790

<210> 559

<211> 558

<212> DNA

<213> Homo sapiens

<400> 559

tacgtctcac tcgggacctg caacgtccga cagaacgagg ggacgtaacg gaggcaggtt 60
ggagccgctg ccgtcgccat gaccgcggtt aaccagcgtg agctcgcccc ccagaagaat 120
atgaaaaagc agagcgactc ggttaaggga aagcgccgag atgacgggct ttctgctgcc 180
gccccgaagc agagggactc ggagatcatg cagcagaagc agaaaaaggc aaacgagaag 240
aaggaggaac ccaagtagct ttgtggcttc gtgtccaacc ctcttgccct tcgcctgtgt 300
gcctggagcc agtcccacca cgtcgcggtt tcctcctgta gtgctcacag gtcccagcac 360
cgatggcatt ccctttgccc tgagtctgca gcggtgccct tttgtgcttc ctccccctca 420
ggtagcctct ctccccctgg gccactcccc ggggtgaggg ggttaccctt tcccagtggt 480
ttttattcct gtggggctca ccccaaagta ttaaaagtag ctttgtaatt ccaaaaaaaaa 540
aaaaaaaaag gsggcccc 558

<210> 560

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 560

gcgaccgccg cgccgnncac ccatggacgg cccggccatc atcaccagcag tgaccaaccc 60
caaggaggac gagggccggt tgccgggccc gggcgagaaa gcctcccagt gcaacgtcag 120
cttaaagaag cagaggagcc gcagcatcct tagctccttc ttctgctgct tccgtgatta 180
caatgtggag gcccctccac ccagcagccc cagtgtgctt ccgccactgg tggaggagaa 240
tgggtgggctt cagaagccac cagctaagta ccttcttcca gaggtgacgg tgcttgacta 300
tggaagagaaa tgtgtggtca ttgatttaga tgaaacattg gtgcacagtt cgtttaagcc 360
tattagtaat gctgatttta ttgttccggt tgaaatcgat ggaactatac atcaggtgta 420
tgtgctgaag cgccacatg tggacgagtt cctccagagg atggggcagc ttttgaatgt 480
gtgcwcttta ctgccgcwtg gccaaagtat cagacctgtg gctgacctcc taga 534

<210> 561

<211> 3043

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (3038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3039)
<223> n equals a,t,g, or c

<400> 561
ctcaccatgt attcaggaca gatccagatt gggtagggct ctgccaaagag cctgtgggac 60
tggaagtcgg gccctgggct gcccgatcgc cagcccgagg acttaccatc cacaatgcac 120
cacggaagag gccgttctat gaaaaactga cacagactgt attcctgcat tcaaagtca 180
gccgtttgta aaatgctgta tcctaggaat aagctgccct ggtaaccagt ctctagctag 240
tgccctcttg cctctcctca cctccttttc tctcagtga ccttggaacct gaatgcagct 300
tacaagacaa gcctgacttt tttctctgat taccttggcc tcctcttgga accagtgtctg 360
aaagggtttg aatcctttac ccaacaatgc aaaaatagag ccaatgggta taacttggct 420
agaaatatca agagttgaat ccatagtgtg gggcccatga ctctagctgg gcaccttggg 480
cctccagctg gccaatagaa gagacaggag acaggaagcc tccccatttt ttcaaagtct 540
gtttaattgc ctattacttc tctcaaagag aacctgaagt cagaacacat gagcaggggtg 600
agaggtgagg caaggttcat cctgaatggg agaggaagtc gaacctactgc tgtgtgtctt 660
gtcaggatgc tcacttggtc ctactgagat gctggatatt gattttgtaa cagcacctgg 720
tgtttcacgg ctgtccgagt gagctaactg ggcggtgtgg ctgcctggac ctccctcttc 780
agggttaacgc tgacagaatg gaggtcagg ctgtctgcaa gaaaacagtt ggtttggctg 840
tgattttgac ctccctcttc ccactgccat ctcttaagag actttgtagc tgcctcctag 900
aagcacattc tgagcacatt tgagacctct gtgttagagg ggagactgca caaactatcc 960
tccccagggt tgagacgtct gcagagtggc aagctgactt gtagaaatgg ggtgccattt 1020
atgctctact tagacaaggg taatcagaaa tggaatcagt gcaggcaaaa tttaggattt 1080
gccgcttcca taaatcaaag catgactaat aggggggtctc tgaaatgtaa gggcacaac 1140
ttcacttagg gcategcaga tgtttgaga atggttggcc taatgattat gctacagatg 1200
ggttttaaat gacccgtcta gggtactgct tccttgcaaa aaaagtcgaa tcctgcattg 1260
aattgaatat gaatttctct aactctctcc agaaaatgga tggagataac ttgtctttaa 1320
aactgtaggc cagccttagc cactgtggag cccttgccctc cgagctctgg ctccaagggg 1380
agctcttctc caggttcaat aggtgaattg atttattatt atcatattga taatgtgaga 1440
ttcttttagcc actttgggga gcctgtctct ccagaagcct ttcttagtgg tgcccacagt 1500
tgagagcccag gggccatgtt tgcaaaactga ttcattgtgca tggctgacag gactactggt 1560
tcactaccaa tgcctgagct tttctcttac atagaaaaac tgtccrctct cagtaatcac 1620
aagcagcatc cgttttgttt tctcttcttg ggagacatct gtcaaaccag gaatattctt 1680
gaaaagaacg tgagcaggaa aaactgctgg tgatactttt ttttaagttt gtttttatct 1740
tgccgtgttg cttcaataca tttgagaata cgctgaagag ggaaaatttc agtgatggag 1800
attctagatt aaatatcagg actgatttcc tgggtgggatt atgggtccagt tttaccaaag 1860
aaccaattcc ttgaatgttg gaatctaact ttttatattg tcattattat tgttgttttt 1920
aaacggttct ttgtcttttc tgttttattt ttctcaagct gctttcagga gctagcagaa 1980
aataactcaa agttgaagac tctggaagat tttgctttta cctaactcgc attgatgtat 2040
taaatttata attttagcat tcccaataga tcctatcatt ccttaaacad aatacccttt 2100
gtcttggagt agaatactaa gtttagagtt gtggatttct agtttaggag aggagctcaa 2160
aactataatc ttttaacaaat tgaaaaatga aatagggtgt tttccctttt tgtgcacacc 2220
tatattacct taagaaattt ccttccatag acagctgcct caaagggaaa tcctctttaa 2280
accgtagttg gcgcagaggt cagtcctagt cggagcttag gaggggaggga gacgctcaca 2340

```

tcgtctgact tgagtcgcca ctgattgtgg caacagcttt gcctcatgag tcaaaaattg 2400
gcaatttctt ttgattttta gttgttgaat ttgctgtttc aagcatttgt acatattaga 2460
agtctaagga gtagcaagtc agtgggagga ctttttcacc cctggcatta gcagcttcga 2520
cctcattttc cagatgcacc agctcctatt aataagttag caaggaaagt gtatgtcacg 2580
tgcaggaaca gtgaggcagg gacaggggtt ctgctccttc tcacttcacc accggcacac 2640
agcttgcccc tgtctttgcc cccaaaggta ttttgtgtct agtgtcamat tggagctatt 2700
cttcactggg ccttaacctt gggttttaaa aagaaggctt ctctgtttgg gtagcgtaag 2760
agctgagtat agtaagtcct cttccaaaga gatggcaata tgctgggcat ctactttaaa 2820
acaaagttgt ctgatttttg caagagaggt taggatttta ttgttcttat ttccctttac 2880
agtctgcag ttccatcaca gtattttttt aaataactca ggtgtatgag aagaaattag 2940
aaaagaaaat taacttatgt ggactgtaaa tgttttattt gtaagattct ataaataaag 3000
ctatattctg taaaaaaaaa aaaaaaaaaa aaaaaatnnc tgc 3043

```

<210> 562

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 562

```

gcgtccgctc caacatcaga ccctcgccctg gctcccagct ggtgctgaag ctgctcagtt 60
caccatccgc cctcggtctc cgcgggggcg tggggcgcca gcctcggcac cgtcctttcc 120
tttctccctc gcgttaggca ggtgacagca gggacatgtc tcgggagatg caggatgtag 180
acctcgctga ggtgaagcct ttggtggaga aaggggagac catcaccggc ctectgcaag 240
agtttgatgt ccaggagcag gacatcgaga ctttacatgg ctctgttcac gteacgctgt 300
gtgggactcc caagggaaac cggcctgtca tcctcaccta ccatgacatc ggcataaacc 360
acaaaacctg ctacaacccc ctcttcaact acgaggacat gcaggagatc acccagcact 420
ttgccgtctg ccacgtggac gcccttgccc agcaggacgg cgcacytcct tccccgcagn 480
tacatgtacc cctccatgga tcagctggct gaaatgcttc ctggagtcc tcaacagttt 540
gggctgaaaa gcattattgg catgggaaca ggagcaggcg cctacatcct aactcgattt 600
gctctaaaca accctgagat ggtggagggc cttgtcctta tcaacgtgaa cccttgtgcy 660
gaaggctgga tggactgggc cgcctccaag atctcaggat ggaccaagc tctgccggac 720
atggtggtgt cccacctttt tgggaaggaa gaaatgcaga gtaacgtgga agtgggccac 780
acctaccgcc agcacattgt gaatgacatg aaccccgcca acctgcacct gttcatcaat 840
gcctacaaca gccggcgcgga cctggagatt gagcgaccaa tgccgggaac ccacacagtc 900
accctgcagt gccctgctct gttggtggtt ggggacagct cgcctgcagt ggatgccgtg 960
gtggagtgca actcaaaatt ggaccaaca aagaccactc tcctcaagat ggcggactgt 1020
ggcgccctcc cgcagatctc ccagccggcc aagctcgctg aggccttcaa gtacttcgtg 1080
cagggcatgg gatacatgcc tcggctagca tgaccgcct gatgcggtcc cgcacagcct 1140
ctggttccag cgtcacttct ctggatggca cccgcagccg ctcccacacc agcgagggca 1200
ccgaagccg ctcccacacc agcgagggca cccgcagccg ctgcacacc agcgagggg 1260
sccacctgga matcaccccc mactcggtg ctgctgggaa cagcgccggg cccaagtcca 1320
tggaaagtct cctgctaggc ggcctgcccc gctgcccgcc cggactctga tctctgtagt 1380
ggcccc 1386

```

<210> 563

<211> 2638

<212> DNA

<213> Homo sapiens

<400> 563

```
cccacgcgtc cggagggtcta cagtatttgt gttggcatag tttttgtaaa aaaaaagatt 60
aaaaaatatc aggatggttg aaaaactaga tctgtgtatc tctgttttgg catgcattta 120
ttcagtatct tctagcaatg gtttttctct gttgatctac cgtagtatcc tttttttaag 180
tttattttat ttttaaggag tattgtcatc acttttcaag gtgtcttgac ttctacacaa 240
agtatatata ttcaggactt taaaaaatag cagtacacat ttaacagtag cgaattacac 300
caaaatgatt tactttgaga tttgaataat ttgcatagca gtaaaatgtg ttttgtgtaa 360
catacaaata gaaaaatgac ccagtatctt aattgatact tactggagag tatcagaatt 420
accacgcagc tcttacagaa tgccataaat tctttaagac taaatattga aatcaattat 480
ttgaagtaat gttwctgatt tactgttaaa agttgctgag ctgagttttt ggagatatca 540
tttatgcctg cctgttccct tatgacagtg aggccttctt tggctccacc tagtatgata 600
atcatgggtt ctgttttagt tgatgagaag tggctcctat gaatgcctct gctcaatttc 660
ttttattttt actttatttt atttttaggg gtctcgccaa ctctgggct caagtgatcc 720
tcctgcttcc acctccccac agtgctggga ttacaggcat gagccaccac gcctggctct 780
ctgttctttt cagtgtctcc gtgccatcag tcagcagtgct ttacatgttt agcatattgt 840
catgcagttt ctcttctgtt cccacgagat atttttggc aaaaaattga caaagtaca 900
tgtgtttttc cccacctatc ccttagaaaa cctaattgtg actgctattt ttaaaaccaa 960
aaagagacag cgtgacgatg cgtaaagcat ttttcttagc ctttcttttg tcttgatctg 1020
ttaatgagaa caaaactgcc agactcaaaa tactctacta ttgtgctgaa agaaatacaa 1080
tttagattgc acaaaatttg aaaatataac tcagctgtct tttaaaagag ttgtgttggt 1140
atctacaaga ctattagcag tcttttttca gagcaaattt taacagctag ttgtgagtgg 1200
tttaaaatat agaaaattat taaaatctta gtttgagggg ttttatagtg ggagaaaaaa 1260
caggacccaa gtttatgtgc cttcttcagt agtcttaatt gaccttttct tcctatttga 1320
gactaaagta gtatcagtat tctggttttc aggaaatatg tactatatag ttttaaaaga 1380
atgttgtccc accaactatt catccaagca aagaattgta actataaata aagtctcagt 1440
tacacttttg cttttatcac ataatttca ttgtagagca ttgtgcaggt ccaagaatag 1500
agctgtcaca aatctttgtg gtagtttctt tagtttttgt aacctgagga atatgttcca 1560
gagaacaggg atatttgtct ggtccagtga ccttggtgat catagtcata attgaaagat 1620
gcctatggca tgcttaaatc agcattgtca actgatttgt tgttgattta ttttacttc 1680
ttggatctat gtagtagttg taataacaaa tatttaaaata gctatttttt tgatgccatt 1740
aaaaaaatca tactctggcc ttttttcccc cttactgttg tttcccagat cttttaaaaa 1800
ttcatcccat atccagaaag taccagttat aaagattgct gaccaagcaa agttttgcat 1860
caaagtgtca cctcatttgt ctgaccaaag actgactgtt gtggttttaa ctctctctg 1920
taaagcattt tgcattttcc ccaagctcct ttctgaaaga agaccagtg cagagcggcc 1980
tttactttca atttctactg ctgaatagac tacttagaga aaatgtgagt ttcagtgtga 2040
acagaattga ttaggatgac gagtttgatg ggcattttca gtactgtatc taagaaaaaa 2100
aaaatagcac agctaggagc ctctgacatt gtctgggtgt ttacgtgggc tgttcatcaa 2160
aattcccctt ttcagttttt aagaatgttc gtctaacaga agaaaatgct gtaaatattt 2220
gtaacaacat tttttttaac aaggccaaaa aagaaaaaaa ggttttttggg aacaaatgaa 2280
cttataaagt ggttttatat aaaacatcaa ttgtcttgta tattttggat aagcagcagt 2340
accagctttc atttgtaaca gtctgtggca ttggraaaaa aggagtctgt gattgttgaa 2400
gtgaattatg ttataaatgc aaagagaaga taaaatatta aaaaacatat tttctaaatg 2460
cgtagtgcac ggttaattca agcttctgta cactacagta tattccattt tcgttcagtt 2520
tgtatatattg ctgactatta cttgatatct ctaatctctt ttcttaacaa atatagcatt 2580
gtagcatgcc ttttaataaa tgtcatgaca tctgtactct cttaaaaaaa aaaaaaaa 2638
```

<210> 564

<211> 691

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (650)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 564
ggcagagcgc ccgctccagg tcccaggag cgcaggtgag gcggcacccc actcccggcg 60
gccccgggc ctccttcgc acgcaocccg agctgcctcc gcacagttag aggagcgtag 120
gagggacccc caccagggg tgacactcca ggaaggggac tgcagaggaa gccagactgt 180
gtccctgaca atgggaacag ccgacagtga tgagatggcc ccggaggccc cacagcacac 240
ccacatcgat gtgcacatcc accaggagty tgccctggcc aagctcctgc tcacctgctg 300
ctctgcgctg cggccccggg ccaccaggc magggrcagc agccggctgc tggwggcctc 360
rtgggtgatg cagatcgatg tgggatctt gagtgcagtc ctaggaggat ttttctacat 420
ccgcgactac accctcctcg tcacctggg agctgcactt ggacaggggc tgtggctgtg 480
ctgctggagc tgctgccttc atttaygaga aacggggttg tacatactgg gccctgctga 540
ggactctgct aacgctggca agctttctnc acagncatcg ntggcctcaa actttgggaa 600
tgaagaattc cgatatggnt tactcttaat tacaacaagt ggctggccgn atnttcagg 660
tcgagtggat tggaacactt caagcoccoa a 691

<210> 565
<211> 1967
<212> DNA
<213> Homo sapiens

<400> 565

```
gtagggatcc attggagcat taaggagcac atatttttat taacttcttt tgagctttca 60
atgttgatgt aatttttggt ctctgtgtaa tttaggtaaa ctgcagtgtt taacataata 120
atgttttaaa gacttagttg tcagtattaa ataatcctgg cattataggg aaaaaacctc 180
ctagaagtta gattatttgc tactgtgaga atattgtcac cactggaagt tactttagtt 240
catttaattt taattttata ttttgtgaat attttaagaa ctgtagagct gctttcaata 300
tctagaaatt tttaattgag tgtaaacaca cctaacttta agaaaaagaa ccgcttgat 360
gattttcaaa agaacattta gaattctata gagtcaaaac tatagcgtaa tgctgtgttt 420
attaagccag ggattgtggg acttcccca ggcaactaaa cctgcaggat gaaaatgcta 480
tattttcttt catgcactgt cgatattact cagatttggg gaaatgacat ttttatacta 540
aaacaaacac caaaatattt tagaataaat tcttagaaag ttttgagagg aatttttaga 600
gaggacattt cctccttctt gatttgata ttcctcaaa tccctcctct tactccatgc 660
tgaaggagaa gtactctcag atgcattatg ttaatggaga gaaaaagcac agtattgtag 720
agacaccaat attagctaag gtattttgga gtgttttcca ttttacagtt tatattccag 780
cactcaaaac tcaggggtcaa gttttaacaa aagaggtagt tagtcacagt aaactactaag 840
atggcatttc tatctcagag ggccaaagtg aatcacacca gtttctgaag gtcctaaaaa 900
tagctcagat gtcctaata acatgcacct acatttaata ggagtacaat aaaactgttg 960
tcagcttttg ttttacagag aacgctagat attaagaatt ttgaaatgga tcatttctac 1020
ttgctgtgca ttttaaccaa taatctgatg aatatagaaa aaaatgatcc aaaatatgga 1080
tatgattgga tgtatgtaac acatacatgg agtatggagg aaattttctg aaaaatacat 1140
ttagattagt ttagtttgaa ggagagggtg gctgatggct gagttgtatg ttactaactt 1200
ggccctgact ggttgtgcaa ccattgcttc atttctttgc aaaatgtagt taagataatac 1260
tttattctaa tgaaggcctt ttaaatttgt ccactgcatt ctgggtattt cactacttca 1320
agtcagtcag aacttcgtag accgacctga agtttctttt tgaatacttg tttcttttagc 1380
actttgaaga tagaaaaacc actttttaag tactaagtca tcatttgcct tgaaagtttc 1440
ctctgcattg ggtttgaagt agtttagtta tgtctttttc tctgtatgta agtagtataa 1500
tttgttactt tcaaaataccc gtactttgaa tgtaggtttt tttgtgtgtg ttatctataa 1560
aaattgaggg aaatgggttat gcaaaaaaat attttgcttt ggaccatatt tcttaagcat 1620
aaaaaaaatg ctgagttttg cttgcattcc ttgagaatgt atttatctga agatcaaaac 1680
aaacaatcca gatgtataag tactaggcag aagccaattt taaaatttcc ttgaataatc 1740
catgaaagga ataattcaaa tacagataaa cagagttggc agtatattat agtgataatt 1800
ttgtattttc acaaaaaaaa agttaaacctc ttcttttctt tttattataa tgaccagctt 1860
ttggtatttc attgttacca agttctattt ttagaataaa attgttctcc ttctaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gggggag 1967
```

<210> 566

<211> 1334

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1312)

<223> n equals a,t,g, or c

<400> 566

```
gaattcggca cgagggagcc tcctggggtg tccacgtgag cgcgcgtgag tccgcccccc 60
cagtcacgtg accgctgact cggggcggtc tccactatcg cttacctacc tccctctgca 120
ggaacccggc gatatggctg ccgctgtgcc ccgcgccgca tttctctccc cgctgcttcc 180
ccttctcctg ggcttctctg tcctctccgc tccgcatggc ggagcggcc tgcacaccaa 240
gggcgcctt cccctggata cggtcacttt ctacaaggct attcccaaaa gcaagttcgt 300
cttggtgaag ttcgacaccc agtacccta cggtgagaag caggatgagt tcaagcgtct 360
tgctgaaaac tcggcttcca gcgatgatct cttggtggca gaggtgggga tctcagatta 420
tggtgacaag ctgaacatgg agctgagtga gaaatacaag ctggacaaaag agagctaccc 480
agtcttttac ctcttccggg atggggactt tgagaacca gtcccataca ctggggcagt 540
taaggttggg gccatccagc gctggctgaa ggggcaaggg gtctacctag gtatgcctgg 600
ttgcctgcct gtatacgacg ccctggccgg ggagttcatc agggcctctg gtgtggaggc 660
ccgccaggcc ctcttgaagc aggggcaaga taacctctca agtgtgaagg agactcagaa 720
gaagtgggccc gagcaatacc tgaagatcat ggggaagatc ttagaccaag gggaggactt 780
cccagcatca gagatgacac ggatcgccag gctgattgag aagaacaaga tgagtgcagg 840
gaagaaggag gagctccaga agagcttaaa catcctgact gccttccaga agaagggggc 900
cgagaaaagag gagctgtaaa aaggctgtct gtgattttcc agggtttggg gggggtaggg 960
aggggagagt taacctgctg gctgtgagtc ccttgtggaa tataaggggg tagtgggaaa 1020
agtgtacta acccagcatt ctgagccctg agtatgcctg gacattgatg ctaacatgac 1080
catgcttggg atgtctctag ctggtctggg gatagctgga gcacttactc aggtggctgg 1140
tgaaatgaca cctcagaagg aatgagtgtc atagagagga gagaggagtg tactgcccag 1200
gtctttgaca gatgtaattc tcattcaatt aaagtttcag tgttttgggt aantaaaaaa 1260
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cgcccgntnt anaggatccc 1320
tcgaggggccc caag                                     1334
```

<210> 567

<211> 1610

<212> DNA

<213> Homo sapiens

<400> 567

```
gccggccagt gcggaaccg tttccgaagg accaccggga acagacggat cggcagggcg 60
rggcggaacg gcgtttgcaa tggctgctac tgtgaacttg gaacttgatc ccattttttt 120
gaaagcacta ggtttcttgc attcaaagag taaagattct gctgaaaagc taaaagcact 180
gcttgatgaa tctttggctc ggggcattga ttccagttac cgtccatctc aaaaggatgt 240
ggagccaccc aaaatttcaa gcacaaaaaa catttccatt aagcaagagc caaaaatatc 300
atccagtctt ccttctggta ataataatgg caaggctctc acaactgaaa aggtaaagaa 360
ggaagctgaa aagagacctg ctgataaaat gaaatcagac atcactgaag gaggttgat 420
tccaaagaaa cctagattgg agaaaccaga aacacagtca tctccatta ctgtccaaag 480
tagcaaggat ttacctatgg ctgacctttc cagttttgag gagaccagtg ctgatgattt 540
tgccatggag atgggattgg cctgcgttgt ttgtaggcaa atgatggtgg catctggcaa 600
```

```

tcaattagta gaatgtcagg agtgccataa tctctaccac cgagattgtc ataaacccca 660
ggtgacagac aaggaagcga atgaccctcg cctgggtgtgg tattgtgccc gatgtaccag 720
acaaatgaaa agaattggctc aaaaaactca gaaaccaccg cagaaaccag ccctgcagt 780
tgtttctgta actccagctg tcaaagatcc attggttaag aaaccagaaa ctaaactgaa 840
acaagagaca acttttctag cgtttaagag aacagaagtc aagacatcca cagttatttc 900
aggaaattct tctagtcca gcgtttcctc gtcagtaact agtggcttaa ctggatgggc 960
agcttttgca gccaaaactt cctctgctgg tccttcaaca gcaaaattga gttcaacaac 1020
acaaaacaat actggggaac ctgctacttc gtcagctaac cagaaacctg tgggtttgac 1080
tggtctggca acatcatcca aagggtggaat aggttccaaa ataggttcca ataacagcac 1140
tacgccact gtacctttaa aaccacctcc acctctaacc ttgggtaaaa ctggccttag 1200
tcgctcagtt agttgtgaca atgtcagcaa agtaggtctt cctagtccaa gtagtttagt 1260
tcaggaagc agcagccaac taagtgggaa tggaaatagt ggaacatcag gacctagtgg 1320
aagtactacc agcaaaacta cttcagaatc cagcagctct ccctcagcat cccttaaagg 1380
cccaacttca caagaatcac agctcaatgc tatgaagcga ttacagatgg tcaagaagaa 1440
agctgcccaa aagaaactca agaagtaatg tggccaagta ggtttttgta tcatattagc 1500
ctaaagatga aaggcttatt attatgatat aatctgtaat aactgtaat ttaataaaaag 1560
tcttcataat caaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa 1610

```

<210> 568

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1037)

<223> n equals a,t,g, or c

<400> 568

```

aattcggcac gagagaaaac attgcaaaag ctaaaccgact aaaaaaggat tgaaggactg 60
aacaggcttt gcaaccagag gaaaatcatt tggaaaatta cacagctttg gaagaatcca 120
ctaaagtttc ttctttggat ttcttgacag tatgatttag taaatgaaat ttgaccaa 180
ggaagaatca tgtagttct gacctcaata ctatagtaac ttttaggcgt ggggtgagaa 240
gtttatagggt ttctattgac agttattgta aattagcatt tactgtggtg caaattcttt 300
ataactgact tagtcatttg ccgcttagca gtttatatac tgaaatgaaa acatcttggtg 360
gggaaaagtg acttttagatt atgaactcaa ttcaaataaa ctctatttaa aatggggtcc 420
tattttggac aaaggaaatt aagaatgtaa aagtcagaac agtcttgagg taaaaagtgt 480
gctttggctt aaaagggata cagtatatta attacatctt ttattattat tgtttatttc 540
ttagaatcat ttctggcttt ctcaaaaaca aataatatta atgagtactt ctatttgctg 600
catttttctt attacagcct ttgagacagc tggtaattat aagtcatttt ccatttttta 660
aaacataatt ttataaagaa ttctcttatt tcgactatgt agaataccac ctactggaca 720
gaacaatttt tgtactcaca aacactgcca ttttcttaga gatggcttga gaggagtaac 780
actatggttt aaagcttgca gtaaaaatgc caaacactgt agtaccttgg aaccagttt 840
attcttgtgc taagcagaac tgtaaaatag ttaaaatgtc ttatcaagta attcgccgat 900
tacaagaca ccatttggtt ttattttcat tctttgkttt aactcatgtg gtagtgatat 960
ttaatacttt ctgatcaaac aggttcaaag taaaacgtta aatttcacat ttcttttnaa 1020

```

```

agaactctta aagtgtgtnaca gttacgccat acttcataag tggtaaagaa aggtataaaa 1080
tttgaaaaca ttttggtggg catagtagtg attgggtgaa aaggataaat tatatcaaaa 1140
tgagaatgtg ctgtaattgg aagtagggag cttaaaggatg tttctttcag tttagtagaa 1200
ctggaacggt ttactattaa acatggcttt tataaatgca tggccaata attttattca 1260
ctgttagtat ttaattcact gtcagcttat taatgttttc tgtaccatt aatgaatttt 1320
aaattacaaa aaattgtcta gcagctacag tttaaaaatg aaactagaca ttaaaataaa 1380
tttgataatt ttttataaaa aaaaaaaaaa ag 1412

```

<210> 569

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 569

```

gacaacgggg gcgaagcgca ggcgcaagga gcaagcgagc attgtgggag gctgtgtcag 60
ctgacccaag gggccttcga ggtgccttag gccgcttgcc ttgctctcag aatcgctgcc 120
gccatggcta gtcagtctca ggggattcag cagctgctgc aggccgagaa gcgggcagcc 180
gagaagggtg ccgaggcccg caaaagaaag aaccggaggc tgaagcaggc caaagaagaa 240
gctcaggctg aaattgaaca gtaccgcctg cagagggaga aagaattcaa ggccaaggaa 300
gctgcggcat tgggatcccg tggcagttgc agcactgaag tggagaagga gaccagagag 360
aagatgacca tcctccagac atacttccgg cagaacaggg atgaagtctt ggacaacctc 420
ttggcttttg tctgtgacat tcggccagaa atccatgaaa actaccgcat aaatggatag 480
aagagagaag cacctgtgct gtggagtggc atttttagatg ccctcacgaa tatgaagctt 540
agcacagctc tagttacatt cttatgatat ggcattaaat tatttccata tattatataa 600
taggtccttc cacttttttg agagtagcaa atctagcttt tttgtacaga cttagaaatt 660
atctaaagat ttcattcttt tacctcatat ttcttaggaa ttaaatggtt atatgttgct 720
tttttttct atgtcttttg gctcaagcaa catgtatatc agtggtgact tttctttct 780
tagatctagt ttaaaaaaaaa aaaaaaccac ataacaattc tttgaagaaa ggaagggatt 840
aaataatttt tttccctaac actttcttga aggtcagggg ctttatctat gaaaaagtag 900
taaatagttc tttgtaacct gtgtgaagca gcagccagcc ttaaagtagt ccattcttgc 960
taatggttag aacagtgaat actagtggaa ttgtttgggc tgcttttagt ttctcttaat 1020
caaaattact agatgataga attcaagaac ttgttacatg tattacttgg tgtatcgata 1080
atcatttaaa agtaaagact ctgtcatgca tttttcccca aaaaa 1125

```

<210> 570

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<400> 570

```

ggggagggtc agttggaggc aggcgctcgc tgaggcaaaa ggaggcgctc ggcccgcggc 60
ctgacaggga cttagcccgc agagatcgac cccgcgcgcg tgacccaca cccaccact 120
catccatcta tccactccct gcgcccctc ctcccacct gagcagagcc gccgaggatg 180
ataaacaccc aggacagtag tattttgcct ttgagtaact gtcccagct ccagtgtgc 240
aggcacattg ttccagggcc tctgtggtgc tcctgatgcc cctcaccac tgtcgaagat 300
ccccggtggg cgagggggcg gcagggatcc ttctctctca gctctaatat ataaggacga 360

```

gaagctcact gtgacccagg acctccctgt gaatgatgga aaacctcaca tcgtccactt 420
ccagtatgag gtcaccgagg tgaagggtctc ttcttgggat gcagtcctgt ccagccagag 480
cctgtttgta gaaatcccag atggattatt agctgatggg agcaaagaag gattgttagc 540
actgctagag tttgctgaag agaagatgaa agtgaactat gtcttcatct gcttcaggaa 600
gggcccagaa gacagagctc cactcctgaa gaccttcagc ttcttgggct ttgagattgt 660
acgtccaggc catccctgtg tcccctctcg gccagatgtg atgttcatgg tttatcccct 720
ggaccagaac ttgtccgatg aggactaata gtcatagagg atgctttacc caagagccac 780
agtgggggaa gaggggaagt taggcagccc tgggacagac gagagggctc ctgctgtct 840
agggaaggac actgaggggc tcagggtgag ggttgcctat tgtgttctcg gagttgactc 900
gttgaaattg ttttccataa agaacagtat aaacatatta ttcacatgta atcaccaata 960
gtaaatgaag atgtttatga actggcatta gaagctttct aaactgcgct gtgtgatgtg 1020
ttctatctag cctaggggag gacattgcct agagggggag ggactgtctg gggttcagggg 1080
catggcctgg agggctggtg ggcagcactg tcaggctcag gtttccctgc tgttggtttt 1140
ctgttttggg tattaagact tgtgtatttt ctttctttgc ttctgtcac cccaggggct 1200
cctgagtata ggcttttcag tccctgggca gtgtccttga gttgtttttt gacactctta 1260
cctgggcttc tctgtgtgca tttgcgtctg gcctggagta agcaggtccg acccctcctt 1320
ctttacagct tagtgttatt ctggcatttg gttaagctgg cttaatctgt ttaatgttat 1380
cagtacattt taaatagggg cattgaaatt tactcccacc accagggctt ttttggggga 1440
tgcctgggcc tttaaaacac tagccaaact ctaattaatt ctcaaatac tgccaggagt 1500
tcttgctcct ggctgcaggc ccaggcccca aggtctcctt cttgggggtca caaacagcag 1560
taaggaagag gaatatatag caactcaggg cctgggaatt gtggggcaat ccgttcttag 1620
ggactggata cttctggctg gctgagtata gtactagctg cctccccacc aggttccgag 1680
tagtgtctga gactctgctc tgcagggcct agggtagcgc tgggagtgtg gaagtggcct 1740
gcccttaact gttttcacta aacagctttt tctaagggga gagcaagggg gagagatcta 1800
gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
aactgattta aagttraaaa aaaaaaaaaa aaaaactcng rgggggcgct atagtg 1916

<210> 571

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1212)

<223> n equals a,t,g, or c

<400> 571

cgcgctccgc cagcgctccg cccacgcgtc cgccccacgcg tccgctcagg aggcgggagg 60
aggacccgga atgaagacga aggcgctcac cattaaatcg tacggctcgc actgccccct 120
gccgcagtc cagcgtcttc aaccgtttct gcggcagctc tggaggccgc ggctttggct 180

```

cagggaagc catgctccca ggactccttc cttgcagcct taaatcggtc tgtacggaaa 240
attccgcgcc ttagaaaccc acgcttgggt gtaaccttat tattgttctt cctgacctac 300
ttcctgttta tcacttccgg gtatcatcatt ttggcatttc ggtgatcggg ttggaactat 360
tgaagccgcg tttcagggtc ttttcccat tttccctttg aaaggaagac ttctggcttc 420
tcctaaatct ccgttctctg ggtaagggga gtccaagcct ctgtcatgag gaacggaaat 480
gcgagggcct cgggtgttac tctaaaatcc gccctcagct tgcacgccgg aagctgcgat 540
tcctgcagcg gaagaggcgt gatctggcct tcgactcgt atgtccacta acaatatgtc 600
ggaccacagg agccgaaca aagtgtgag gtacaagccc ccgccgagcg aatgtaaccc 660
ggccttgagc gaccgacgc cggactacat gaacctgctg ggcatgatct tcagcatgtg 720
cggcctcatg cttaaagctga agtgggtgtc ttgggtcgt gtctactgct ccttcatcag 780
ctttgccaac tctcggagct cggaggacac gaagcaaatg atgagtagct tcatgctgtc 840
catctctgcc gtgtgatgt cctatctgca gaacctcag cccatgacgc cccatgggtg 900
ataccagcct agaaggggtca cattttggac cctgtctatc cactaggcct gggctttggc 960
tgctaaacct gctgccttca gctgccatcc tggacttccc tgaatgaggc cgtctcgggtg 1020
ccccagctg gatagaggga acctggccct ttcttaggga acaccctagg cttacccttc 1080
ctgcctccct tcccctgcct gctgctgggg gagatgctgt ccatgtttct aggggtattc 1140
atttgetttc tcgttgaaac ctgttggtta taaagttttt cactctgaaa aaaaaaaaaa 1200
aaaanrnaaa anctygrggg ggggcccga acccaattcs ccggatagtg agt 1253

```

<210> 572

<211> 2013

<212> DNA

<213> Homo sapiens

<400> 572

```

cctgggagca cctctttgct tttcacacca aacaaaaact gscgaragcc ctccatagcca 60
ccagtgatcc ccaagcatcc agtacagaac caggcatcga gctagctccc tgcacggccg 120
caccctccca gagaactcct tgaggagaac aagtgccctt ggggacagcc ggcakgcgcc 180
cctgtacgtc tgctcatgca ccaggcagca cagccgcagt tcctcagttg ttgttttgac 240
atatttcagt ttccacctca ygtttttaga gcagaaccac actgtctccc tggaggggct 300
cgagggcagc accggggact gaccattctg tgaaagkagc agaatgtgag gagcacgcgt 360
gagcttatgt accgtgaaga tgatcagagg atatcttatt ttaagagtaa aaaccacat 420
aattttattt ctgcttgata gtcattgtag tctgtcatac ccacctctgg gactctgcgt 480
ggctgttttg ctgtcacttg tagcaataac gacattagtt ctagtacgtg ctgttttaca 540
tttttctttt gatgggttta gtcttgccct ggagtgccga tgatgattct ccctccagag 600
ccacgcttgg gaacatgaag caagtctggc gtgtgggctg cgtgccggcc ttagtgggac 660
ccgtgggggt ggagcatgcc tttaggggca gtgtctgggc cgaagcacgt cccaccacac 720
agtgccagag ccagagaagg gggccacca ccaaggccaa gcttgaccag gtcagcattg 780
ccatggccca gtgtgccccg tggcctctga agatccctct gtgcagggtc tgcagggatc 840
tggattgcaa gggcccaagt ctgcaggctc ggaagcatct tcctataaga gcactttcgc 900
cttctgggtc aggactccaa ggtgcagcgg gcttcacagc cctacaattg ggttctcagc 960
taagccccag agttctggta gaaccatccc ggggcgggtg gaggggtgga ttttaaggag 1020
acgggaacac atggggcagg tcctggaact tgggtggcctg aggactgagg ccattgccct 1080
ggtggaaagg cctggcctgg ttctgtggc ttgggacctg aataggcagg tgctgctggc 1140
tccgtagaaa cctttttccc atcttttget ctttgccaaa cctaccttgc tttgggagct 1200
gcctgcacca cccagagaa gggccacct tcttcatccc tcagaccgga ggaggcctcc 1260
cagtaaggag tttcccaaga ggggactcac aggaacaag tcttagtgct tgggagggag 1320
gccccgctgc gtgtcagac tcacagccaa cctggaaggt agacgagata gcgccacca 1380
cgcccccca cccccagac tccgagtaaa gcggcggtg gggccggagt cacctccct 1440
atggcagtg ccgccgctgt actccatcct ccgctcagga agatcagctg taaataaacg 1500
ctgggctccc cagagcacct gtccgccac tggccttget gttctgggat cttcgtgca 1560

```

```

gttcacggga aacaagcctg agtccgctcg caccgcgggc tgctctcccg gctcggcccg 1620
gccgcctctg tctccggcca ccgggtggcg ctgccgagcc agagccgccg cgtcccgccg 1680
ctttccagga gccccaggcc cggaggagcg aagcccgcag agcaaagggtg gaaacacgtg 1740
cctacgctgt aaagaaatcc tgttccagag catacctgtt gtacaaacag aactgttcc 1800
taacgagagg agtgacgtat tttcatcacc gtttttaatt tgttttctta cgggtttacg 1860
atthttgaatt tttcttattt ggttgaaaga atthttgattc tatcagcctg agtgagttca 1920
gcctgtaaaa aggatgttaa gctgtgggta aaatatgcaa acgaaaagaa atatattgta 1980
caaattctat ataataagaa aaaaaaaaaa aaa 2013

```

<210> 573

<211> 669

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 573

```

cgthttgccc ggcgtgccgc gtctctctcg gctcccgctt cctttgaccg cctccccccc 60
cggcccggcg ggcgccgcct cctccacggc cactccgcct ctccctccc ttcgtccctt 120
cttcctctcc cttttttcct tcttccttcc cctcctcgcc gccaccgcc aggaccgcc 180
gccgggggac gagctcggag cagcagccag agthttattaa ccacttaacc tctcagaact 240
gaacaaagac aacattgttc ctggaacgcc ctctthtttaa aaaagaaagc ataacccta 300
ctgtagaact aaatgcactg tgcattgaaac ttggaaaaaa accaatgtat aagcctgttg 360
acccttactc tcggatgcak tcmacctata actacaacat gagaggaggt gcttatcccc 420
cgaggtactt ttaccattt ccagntccac ctttacttta tcaagtggaa ctttctgttg 480
gaggacagca atttaattgc aaaggaaaga caagacaggc tgcgaaacac gatgctgctg 540
ccaaagcggg tgaggatcct gcagaatgag cccctggcag aagagggtg aggtgaaagg 600
aagagaatcc gaagaagaaa actcaataaa nctgaaanaa agcaagggtg tgagatgcct 660
taaacggga 669

```

<210> 574

<211> 2432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2367)

<223> n equals a,t,g, or c

<400> 574

```

acacagnaga aacacagcat tccaggtctg cccacacctt atattgataa gtagccaatg 60
ggagcgggta gccctgatcc ctggccaatg gaaactragg taggcgggtc atcgcgctgg 120
ggtctgtagt ctgagcgcta cccggttgct gctgcccagg gaccgcggag tcggacgcag 180
gcagaccatg tggaccctgg tgagctgggt ggccttaaca gcagggctgg tggctggaac 240
gcggtgcccc gatggtcagt tctgcctgt ggcctgctgc ctggaccccg gaggagccag 300
ctacagctgc tgcctgcccc ttctggacaa atggcccaca aactgagca ggcactctgg 360
tggccctgc caggttgatg cccactgctc tgccggccac tctgcatct ttaccgtctc 420
agggaacttc agttgctgcc ccttcccaga ggcctgggca tgccgggatg gccatcactg 480
ctgcccacgg ggcctccact gcagtgcaga cgggcgatcc tgcttccaaa gatcaggtaa 540
caactccgtg ggtgccatcc agtgccctga tagtcagttc gaatgcccg acttctccac 600
gtgctgtgtt atggtcgatg gtcctgggg gtgctgcccc atgccccagg ctctctgctg 660
tgaagacagg gtgcactgct gtccgcacgg tgccctctgc gacctgggtc acaccgctg 720
catcacaccc acgggcaccc acccctggc aaagaagctc cctgcccaga ggactaacag 780
ggcagtgccc ttgtccagct cggtcagtgt tccggacgca cggctcccggt gccctgatgg 840
ttctacctgc tgtgagctgc ccagtgaggaa gtatggctgc tgcccaatgc ccaacgccac 900
ctgctgctcc gatcacctgc actgctgccc ccaagacact gtgtgtgacc tgatccagag 960
taagtgcctc tccaaggaga acgctaccac ggacctcctc actaagctgc ctgcgcacac 1020
agtgggggat gtgaaatgtg acatggaggt gagctgcccc gatggctata cctgctgccg 1080
tctacagtgc ggggcctggg gctgctgccc ttttaccag gctgtgtgct gtgaggacca 1140
catacactgc tgtcccgcgg ggtttacgtg tgacacgcag aagggtacct gtgaacaggg 1200
gccccaccag gtgccctgga tggagaaggc cccagctcac ctcagcctgc cagaccaca 1260
agccttgaag agagatgtcc cctgtgataa tgtcagcagc tgctccctct ccgatacctg 1320
ctgccaactc acgtctgggg agtggggctg ctgtccaatc ccagaggctg tctgctgctc 1380
ggaccaccag cactgctgcc cccagggcta cagtggtgta gctgaggggc agtgtcagcg 1440
aggaagcgag atcgtggctg gactggagaa gatgcctgcc cgccgggctt ccttatccca 1500
ccccagagac atcggctgtg accagcacac cagctgcccg gtggggcaga cctgctgcc 1560
gagcctgggt gggagctggg cctgctgcca gttgccccat gctgtgtgct gcgaggatcg 1620
ccagcactgc tgcccgctg gctacacctg caacgtgaag gctcgatcct gcgagaagga 1680
agtgtgtctt gccagcctg ccaccttctt ggcccgtagc cctcacgtgg gtgtgaagga 1740
cgtggagtgt ggggaaggac acttctgcca tgataaccag acctgctgcc gagacaaccg 1800
acagggtgg gccctgctgc cctaccgcca gggcgctctgt tgtgctgac ggcgccactg 1860
ctgtcctgct ggcctccgct gcgcagccag gggtagcaag tgtttgcgca gggaggcccc 1920
gcgctgggac gccccttga gggaccacgc cttgagacag ctgctgtgag ggacagtact 1980
gaagactctg cagccctcgg gacccactc ggagggtgcc ctctgctcag gcctccctag 2040
cacctcccc taaccaaatt ctccctggac cccattctga gctccccatc accatgggag 2100
gtggggcctc aatctaaggc cttccctgtc agaagggggg tgtggcaaaa gccacattac 2160
aagctgcat cccctccccg tttcagtggg ccctgtggcc aggtgctttt ccctatccac 2220
aggggtgttt gtgtgtgtgc gcgtgtgcgt ttcaataaag tttgtacact ttcaaaaaaa 2280

```


aaaaaaaaaa aaagggsggc cgctctaaaa gatccaaggg gccaanctta cccttgcatg 2340
ccaactctaa ctctctccca ataattnatt cttatataac taaggcactg gccgtctttt 2400
aaaacttctg aatggaaatt gctacttggg at 2432

<210> 575

<211> 1372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1370)

<223> n equals a,t,g, or c

<400> 575

tccgcccacg cgtccgagcg gatcgcgkgc tcgggctgcg gggctccggc tgcgggcgct 60
gggcccgcgag ngcggagctt gggagcggac ccaggccgtg ccgcgcggcg ccatgaaggg 120
caaggaggag aaggagggcg gcgcacggct gggcgtggtc ggcggaagcc cgagaagagc 180
ccgagcgcgc aggagctcaa ggagcagggc aatcgtctgt tcgtgggccc aaagtaccgc 240
gaggcggcgg cctgtctacg ccgcgcgac acccggaacc cgtggtggc cgtgtattac 300
accaaccggg ccttgtgtga cctgaagatg cagcagcacg agcaggccct ggccgactgc 360
cggcgcgccc tggagctgga cgggcagtct gtgaaggcgc acttcttctt ggggcagtgc 420
cagctggaga tggagagcta tgatgaggcc atcgccaatc tgcagcgagc ttacagcctg 480
gccaaggagc agcggctgaa cttcggggac gacatcccca gcgtcttctg aatcgcaag 540
aagaagcgtt ggaacagcat tgaggagcgg cgcacccacc aggagagcga gctgcactcc 600
tacctctcca ggctcattgc cgcggagcgt gagagggagc tggagagtg ccagcgaac 660
cacgaggtg atgaggacga cagccacgtc cgggcccagc aggcctgcat tgaggccaag 720
cacgacaagt acatggcgga catggacgag cttttttctc aggtggatga gaagaggaag 780
aagcgagaca tccccgacta cctgtgtggc aagatcagct ttgagctgat gcgggagccg 840
tgcacacgc ccagtggcat cacctacgac cgcaaggaca tcgaggagca cctgcagcgt 900
gtgggtcatt ttgaccccggt gaccggagc cccctgaccc aggaacagct catccccaac 960
ttggctatga aggaggttat tgacgcattc atctctgaga atggctgggt ggaggactac 1020
tgaggttccc tgccctacct gggtcctgg tccaggggag ccctgggcag aagcccccg 1080
cccctataca tagtttatgt tcctggccac cccgaccgct tcccccaagt tctgctgttg 1140
gactctggac tgtttccct ctcagcatcg cttttgctgg gccgtgatcg tcccccttg 1200
tgggctggaa aagcaggtga ggggtggctg ggctgaggcc attgccgcca ctatctgtgt 1260

aataaaatcc gtgagcacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
ttggggggggg ccccntancc aattggccct aaagggggggg tttaaaaaan aa 1372

<210> 576

<211> 2020

<212> DNA

<213> Homo sapiens

<400> 576

gctccccgcg kckcttgcg ttttgtggcg gcgcccgcgc tcgcaggcca ctctctgctg 60
tcgcccgtcc cgcgcgctcc tccgaccgcg tccgctccgc tccgctcggc cccgcgcgcg 120
ccgtcaacat gatccgctgc ggcctggcct gcgagcgctg ccgctggatc ctgcccctgc 180
tcctactcag cgccatcgcc ttcgacatca tcgcgctggc cgcccgcggc tggttgcagt 240
ctagcgacca cgccagacg tcctcgtgtg ggtggaaatg ctcccaagag ggcggcggca 300
gcgggtccta cgaggaggcg tgtcagagcc tcatggagta cgcgtggggg agagcagcgg 360
ctgccatgct cttctgtggc ttcacatcc tggatgctg tttcatcctc tccttcttcg 420
ccctctgtgg accccagatg cttgtcttcc tgagagtgat tggaggtctc cttgccttgg 480
ctgctgtgtt ccagatcacc tccctggtaa tttaccccg gaagtacacc cagaccttca 540
cccttcatgc caaccgtgct gtcacttaca tctataactg ggccacggc tttgggtggg 600
cagccacgat tatcctgaty ggctgtgcct tcttcttctg ctgcctcccc aactacgaag 660
atgaccttct gggcaatgcc aagcccagg acttctacac atctgcctaa cttgggaatg 720
aatgtgggag aaaatcgctg ctgctgagat ggactccaga agaagaaact gtttctccag 780
gcgactttga acccattttt tggcagtgtt catattatta aactagtcaa aaatgctaaa 840
ataatttggg agaaaatatt ttttaagtag tgttatagtt tcatgtttat cttttattat 900
gttttgtgaa gttgtgtctt ttcactaatt acctatacta tgccaatatt tccttatatc 960
tatccataac atttatacta catttgtaag agaatatgca cgtgaaactt aacactttat 1020
aaggtaaaaa tgaggtttcc aagatttaat aatctgatca agttcttgtt atttccaaat 1080
agaatggact cggctctgta agggctaagg agaagaggaa gataaggtta aaagttgtta 1140
atgaccaaac attctaaaag aaatgcaaaa aaaaagttaa ttttcaagcc ttcgaactat 1200
ttaaggaaag caaaatcatt tcctaaatgc atatcatttg tgagaatttc tcattaatat 1260
cctgaatcat tcatttcagc taaggcttca tgttgactcg atatgtcacc taggaaagta 1320
ctatttcatg gtccaaacct gttgccatag ttggttaaggc tttcctttaa gtgtgaaata 1380
tttagatgaa attttctctt ttaaagttct ttatagggtt aggggtgtggg aaaatgctat 1440
attaataaat ctgtagtggt ttgtgtttat atgttcagaa ccagagtaga ctggattgaa 1500
agatggactg ggtctaattt atcatgactg atagatctgg ttaagttgtg tagtaaagca 1560
ttaggagggt cattcttgtc acaaaaagtgc cactaaaaca gcctcaggag aataaatgac 1620
ttgcttttct aaatctcagg tttatctggg ctctatcata tagacaggct tctgatagtt 1680
tgcaactgta agcagaaacc tacatatagt taaaatcctg gtctttcttg gtaaacagat 1740
tttaaatgtc tgatataaaa catgccacag gagaattcgg ggatttgagt ttctctgaat 1800
agcatatata tgatgcatcg gataggtcat tatgattttt taccatttcg acttacataa 1860
tgaaaaccaa ttcattttta atatcagatt attattttgt aagttgtgga aaaagctaata 1920
tgtagttttc attatgaagt tttcccaata aaccagggtat tctaaaaaaa aaaaaaaaaa 1980
aaaactcgag gggggcccgg taccawtcg ccgtatatga 2020

<210> 577

<211> 3161

<212> DNA

<213> Homo sapiens

<400> 577

ctcatttact gtaatattta tgatacagtg aatatgaaaa tgcactggtc agaaggcact 60

```

ctcaagagc cgcactgctc ctgacatcgt ccttagcaat gaaatcacia agacagccaa 120
agcagtcctg cttcttggaa atcagaagct gcctttatca catataaagc caaacagggc 180
ataacctgt cacgtgagca tgtcatcagg cttctgagga cttgttcttt ataaaaaag 240
accttcacaa aatatcttgg cttagagata gcagctttta ttaacaaagg ccacctaggc 300
tgacacctgc agataatcat ctccctttct ttgtctatgt tgtacatttt catgatataa 360
cttttaacta tgtctagaga aggcaggctc tgcaagagag gtgccctttc aaccgctca 420
gtgccctgga caggagatgc tgtgttaaac tgttaatgga tatctatatg agaagctcat 480
ttttgtatgc tatccctgca gttttttttt ttctaacagg cccatgtttg agaataaaca 540
agtctgtgat gtcagagaca aagggtgtatt cttcagtctg cagggtgtgtg gcacctccct 600
tctcccctgc agccccccac atccagagcc gttcctgaga gtgacatcat gcacaaagaa 660
aacataacct tggctcctcag gtgaaccctt ggaacattct gtgaccgcct gatgtccatt 720
ctgagccacc ttggcacaca tgcttacagg cagcactgct aagggttcag gtgccccatg 780
gctgacagcc cgagttgctt ctgtggacca tcatgccgct cggcacgtcc tgagacagaa 840
gttgctgcag gaaggagctt ctggagaggt cctgtggcat gtgtgggggt gtgtgtgtgt 900
atgtttcctt cttgaacaga cattccaact tttagatgtgt ttatagaact gaccttttta 960
ctaacaaaat acaatgatat atgttggaaa ctacttaata tgcttttcct gcacacctta 1020
gcaataactg taggggtctc tgctagagtt gtttgtatgt acagcaattt tgaacaaatt 1080
gttttaaatg taatataaga gaattagttt aaggaagtaa agagaatcat ttgcttgtgt 1140
tacattttca gtgaggattc agtttaagag tcattcttag gactccatt tcctaataatt 1200
tattcatggg taatgaagaa atggtttgca ttttgtggcc agtcctaatt tattttccag 1260
ctgagcccta acttccggct cccacctacc tccacggact tcctaacaga gacttatgaa 1320
taccaggatg tgtttttgtt aagtcagggt caattcgttg cccctgtcag ttttatagag 1380
tgtgagggtc actccattaa agatctctcc tgggtggatc ctacttggat gttcagggtga 1440
ttttgaaaac tgctaacatt tttaaaaggc tagaacatcc tttgacttct tgaaaatctg 1500
catgtctggc ttgggtttta ttaccacatg cctgagttct tcaagaatgg aaggctcaag 1560
tattctcatc ttccatttgc caaacttcct tcctgatttg agtcacgtgt tccacttggg 1620
aagaaagggg acagagagcc tccctcatgg acagtgtatg aatttcattg ggaatcttgc 1680
tctctcccg cctctatgcct ttctctcttt ttaaccttac ttacataat attatagatg 1740
ggccaagaaa agaaaagatg acataacatt ttgatgaatt tcacctattc cattcttcac 1800
gtttcagaat tggctgactt tgttagaaga taattgaagt agccttgggt caaaagcaac 1860
cttttcaatt gtgatcatac ctaaaacata taaaaccct gccgtagatt aaaagcaatt 1920
ataaaatcat aaaattgaat gtttgagaa tccctggagc gtagatttct ttgtctttgg 1980
cctgcggact agaaagaggg cagcagtagt atgctggagc ttccctggga taccagccac 2040
atggtttctt ttcattagat ctgatttttg tttccactg tagatctgat tttgtagtgt 2100
aaaacatttc accaccatca aacactattt ctgaatattg tgcttttta tacctagcct 2160
agatgaaaac cgatgccatt cttattcaga aaatccccc atctacatg actgttatct 2220
agacataaag caaagtgcatt ttaattcaaa atttgggtca caatataagt attttgtaaa 2280
agccagctga accagcattt tatcagggtg aaatctctgc aagccaaatt gctgatactc 2340
cttcatgcag atcaacttgg tgtcccagtc agaatagaac agcataatta cctggagtta 2400
gggggagtat ttctgcacta ttacttgtca gggagagaag aaacttagaa ttgtccctca 2460
aaggagtgtc aagaagtatg aataaatgtc ctttcaccag ctccacaggcc agaaatggag 2520
gacccaagtc aactaggtga aactactagc agaccagct tcccataat aacctaatct 2580
gcaaatgtgt ctattaaagt ctcatgttt tcaggatgca atgaaagtgg atttcaaaag 2640
gctttggaaa aataagtga acatgactga tcttgaaaaa aaaagcaaaa gcttaaatat 2700
ttgatacaag ttacttagc tacaacatac ttacattgt tgcttttagt tatctcacag 2760
gcactgacat ttatatatta gaaaatactt ttaatctttc taatcttttt ttgtaaatat 2820
tagtgtccat tctgtatgac tcgctaacct actttgcaag gctttgggca acatttttagc 2880
tcattaactt caagatgatg tgtcatctgt atagggtcaa gaatgggact tctgaactga 2940
ggaatttgct gttgacagcc aaagtatagt gtacaagatt gatgtaactt gatatgtatt 3000
tttgttgaag ttttttgtaa aaaaaaatta tttacaatgt tatttgaatg atttttttaa 3060
atgctgtgaa tctatatttg ttgttttrta tattaaaatt catttgccaa aaaaaaaaaa 3120

```

aaaaaaaaa aaaaaaaaaa aaaactcgag actagtcttc t

3161

<210> 578

<211> 2046

<212> DNA

<213> Homo sapiens

<400> 578

```
gtcatgcagt gcgccggaga actgtgctct ttgaggccga cgctaggggc ccggaaggga 60
aactgcgagg cgaagggtgac cggggaccga gcatttcaga tctgctcggg agacctgggtg 120
caccaccacc atgttggctg caaggctggg gtgtctccgg acactacctt ctagggtttt 180
ccaccagct ttcaccaagg cctcccctgt tgtgaagaat tccatcacga agaataatg 240
gctgttaaca cctagcaggg aatatgccac caaaacaaga attgggatcc ggcgtgggag 300
aactggccaa gaactcaaag aggcagcatt ggaaccatcg atggaaaaa tatttaaaat 360
tgatcagatg ggaagatggg ttgttgctgg aggggctgct gttggtcttg gagcattgtg 420
ctactatggc ttgggactgt ctaatgagat tggagctatt gaaaaggctg taatttggcc 480
tcagtatgtc aaggatagaa ttcattccac ctatatgtac ttagcaggga gtattggttt 540
aacagctttg tctgcatag caatcagcag aacgcctgtt ctcatgaact tcatgatgag 600
aggctcttgg gtgacaattg gtgtgacctt tgcagccatg gttggagctg gaatgctggg 660
acgatcaata ccatatgacc agagcccagg ccaaagcat cttgcttggg tgctacattc 720
tggtgtgatg ggtgcagtgg tggctcctct gacaatatta gggggtcctc ttctcatcag 780
agctgcatgg tacacagctg gcattgtggg aggcctctcc actgtggcca tgtgtgcgcc 840
cagtgaagaa tttctgaaca tgggtgcacc cctgggagtg ggcctgggtc tcgtctttgt 900
gtcctcattg ggatctatgt ttcttcacc taccaccgtg gctggtgcca ctctttactc 960
agtggcaatg tacgggtggg tagttctttt cagcatgttc cttctgtatg ataccagaa 1020
agtaatcaag cgtgcagaag tatcaccaat gtatggagtt caaaaatatg atccccattaa 1080
ctcgatgctg agtatctaca tggatacatt aaatatattt atgcgagttg caactatgct 1140
ggcaactgga ggcaacagaa agaaatgaag tgactcagct tctggcttct ctgctacatc 1200
aaatatcttg ttaatgggg cagatatgca ttaaatagtt tgtacaagca gctttcgttg 1260
aagtttagaa gataagaaac atgtcatcat atttaaagt tccggtaatg tgatgcctca 1320
ggtctgcctt tttttctgga gaataaatgc agtaatcctc tcccaaataa gcacacacat 1380
tttcaattct catgtttgag tgattttaaa atgttttggg gaatgtgaaa actaaagttt 1440
gtgtcatgag aatgtaagtc ttttttctac tttaaaattt agtaggttca ctgagtaact 1500
aaaatttagc aaacctgtgt ttgcatattt ttttggagtg cagaatattg taattaatgt 1560
cataagtgat ttggagcttt ggtaaaggga ccagagagaa ggagtcacct gcagtccttt 1620
gtttttttaa atacttagaa cttagcactt gtgttattga ttagtgagga gccagtaaga 1680
aacatctggg tatttggaaa caagtgttca ttgttacatt catctgctga acttaacaaa 1740
actgttcac ctagaacagg cacaggtgat gcattctcct gctgttgctt ctgagtgctc 1800
tctttccaat atagatgtgg tcatgtttga cttgtacaga atgttaatca tacagagaat 1860
ccttgatgga attatatatg tgtgttttac ttttgaatgt tacaaaagga aataacttta 1920
aaactattct caagagaaaa tattcaaagc atgaaatatg ttgctttttc cagaatacaa 1980
acagtatact catgagcaaa aaaaaaaaaa gggcgccgc tctagaggat ccctcgaggg 2040
gcccaa
```

2046

<210> 579

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<400> 579
ctgcgggnaa ctgctgatgg ctcagggact gtcagcctct gctctggaag gcctgaagac 60
ggaagaaggg agtgtcagag gcgccctgcc agctgtgtca tctccccag ctccagtttc 120
accctcatca cccaccacac ataatgggga gctggagccg tcattctccc ccttgctagg 180
agaagggaag acgcccgaga cgctgcttcc ccagaagtgc tggggncagg gaggcccagg 240
nagatgagag agaaggtccg agtaggtgga tagaagacaa ggggggagac cgagccggag 300
tg 302

<210> 580
<211> 3067
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1808)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2945)
<223> n equals a,t,g, or c

<400> 580
gcgcctgcag gtcgacacta gtggatccaa agaattcggc acaggagcgg cgcgcgctcg 60
gacctctccc gccctgctcg ttcgctctcc agcttgggat ggccggctac ctgcgggtcg 120
tgcgctcgct ctgcagagcc tcaggctcgc ggccggcctg ggcggcggcg gccctgacag 180
ccccacctc gcaagagcag ccgcggcgcc actatgccga caaaaggatc aaggtggcga 240
agcccgtggt ggagatggat ggtgatgaga tgaccctgat tatctggcag ttcatcaagg 300
agaagctcat cctgccccac gtggacatcc agctaaagta ttttgacctc gggctcccaa 360
accgtgacca gactgatgac caggtcacca ttgactctgc actggccacc cagaagtaca 420
gtgtggctgt caagtgtgcc accatcacc ctgatgaggc ccgtgtggaa gaggttcaagc 480
tgaagaagat gtggaaaagt cccaatggaa ctatccggaa catcctgggg gggactgtct 540

```

tccgggagcc catcatctgc aaaaacatcc cacgcctagt ccctggctgg accaagccca 600
tcaccattgg caggcacgcc catgnggacc agtacaaggc cacagacttt gtggcagacc 660
gggcccggcac tttcaaaatg gtcttcaccc caaaagatgg cagtgggtgc aaggagtggg 720
aagtgtacaa cttccccgca ggcggcgtgg gcatgggcat gtacaacacc gacgagtcca 780
tctcaggttt tgcgcacagc tgcttccagt atgccatcca gaagaaatgg ccgctgtaca 840
tgagcaccaa gaacaccata ctgaaagcct acgatgggag tttcaaggac atcttccagg 900
agatctttga caagcactat aagaccgact tcgacaagaa taagatctgg tatgagcacc 960
ggctcattga tgacatgggtg gctcagggtcc tcaagtcttc ggggtggcttt gtgtgggcct 1020
gcaagaacta tgacggagat gtgcagtcag acatcctggc ccagggtctt ggctcccttg 1080
gcctgatgac gtccgtcctg gtctgccctg atgggaagac gattgaggct gaggccgctc 1140
atgggaccgt cacccgccac tatcgggagc accagaaggg ccggcccacc agcaccaacc 1200
ccatcgccag catcttttgc tggacacgtg gcctggagca ccgggggaag ctggatggga 1260
accaagacct catcaggttt gccagatgc tggagaagggt gtgcgtggag acgggtggaga 1320
gtggagccat gaccaaggac ctggcgggct gcattcacgg cctcagcaat gtgaagctga 1380
acgagcactt cctgaacacc acggacttcc tcgacaccat caagagcaac ctggacagag 1440
ccctgggcag gcagtagggg gaggcgccac ccattggctgc agtggagggg ccagggtctga 1500
gccggcgggt cctcctgagc gcggcaragg gtgagcctca carccccag caccgggagt 1560
cttgccagg gatggggagc ggggaggctm carctccgt ccaacccccct gaggagggtca 1620
ctccccatcc agccaccctt gcccgccggc ctccgagtcc ccgaaggtcc caccatcccc 1680
gcaggaactc cctggatgga gggggccgat cccggggagc gggttctgca cagcctgaac 1740
cccagcactt ccagcccaa aagcacaact cttatcccca gccaccccaa ccctaccag 1800
cccagcgncc ccaggggccc gctaccccc atactact cccccacgaa tgagacggca 1860
gcgttctgcc cctgacctca aggagagtgg ggcagctgtg tgagtccac atcctgggca 1920
gagggcctgg tggggcccyt tgctaggaga agggaagacg cccgagacgc tgcttcccca 1980
gaagtgtctg ggcagggagg cccaggagat gagagagaag gtccgagtag gtgatagaag 2040
acaaggggga gaccgagccg gagytgagga aaggaagagg gcacggaktt gccaggagca 2100
aaccaaagtg aagagagaga taggaagctg cctcggggcc accccttgca aagggggtgt 2160
gtccacaaaa cgctgctatg ggtggggtgg ggggctggg tgctgcgtag ccagtgtttg 2220
actttctttt caagtggggg aaagtgggag aggactgaga gtgaggcaag ttctccccag 2280
cccctgtccg tctgtctgtc tgtctgtggt ggtttctgtt tcttgggagg catggttagga 2340
tcataagtca tccccctccc cttccaggcc tcctgctata ttggggggac ctgactgggt 2400
tggttgaggt cccatgagga tgtgggccct ttaataaagg atagcaaaca gggagcttgt 2460
ggcctgtttg ttttggggtt tcatggagggt gtaggttata taaggcaatg gcacaggctc 2520
taagcatact tatcagtga gtattgtatg tgtgctctgt gcaggcacca cccagatctg 2580
gatataagaa tgtttccatc ttgtcttctt gaacttcacc ctctgtctc ttcttcagg 2640
gtgcgcascc gatcttttcc ccgctttttt tttttttggg agacagggtc ttgctttgtt 2700
gccaggctg gaggtacagt cttggctcac tgcagctcc gcctcctgag tagctgggat 2760
tacaggcatg tgccaccacg cccggctcat tactgtttt tttgtagtga cgaggtttca 2820
ccatgttggc caggttggtc tcgaactcct gatgacctca agtgatccgc ccaccttggc 2880
ctcccaaagt ggtgggatta caggtgtgag ccaccgcgcc cggcctcccc tgctttcatg 2940
tttgnttacc cagtgtctca gtctgtgcca gcagcamcac tgtctgtwat ggacaaagca 3000
cagaagcggg gatgcraggg gaagtagagg gaccgccagc ctgtcaaggc ttaactggct 3060
gttgctg 3067

```

<210> 581

<211> 1574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<400> 581

gtacggattc ccgggtcgac ccacgcgtcc ggcggcggcg acggcgacat ggagagcggg 60
gcctacggcg cggccaaggc gggcggctcc ttcgacctgc ggcgcttcct gacgcagccg 120
caggtggtgg cgcgcgccgt gtgcttggtc ttcgccttga tcgtgttctc ctgcacttat 180
ggtgagggct acagcaatgc ccacgagtct aagcagatgt actgcgtggt caaccgcaac 240
gaggtgcct gccgctatgg cagtgccatc ggggtgctgg ccttctctgg ctcggccttc 300
ttcttggtgg tcgacgcgta tttccccag atcagcaacg ccaactgacc caagtacctg 360
gtcattggtg acctgctctt ctcagctctc tggaccttcc tgggtttgt tggtttctgc 420
ttcctcacca accagtgggc agtcaccaac ccgaagnacg tgctggtggg ggccgactct 480
gtgagggcag ccatcacctt cagcttcttt tccatctctt cctgggggtg gctgaccc 540
ctggcctacc agcgtacaa ggctggcgtg gacgacttca tccagaatta gttgacccc 600
actccggacc ccaacactgc ctacgcctcc taccaggtg catctgga caactaccaa 660
cagccacct tcacccagaa cgcggagacc accgagggt accagccgcc ccctgtgtac 720
tgagcggcgg ttagcgtggg aagggggaca gagagggcc tccctctgc cctggacttt 780
cccagagcc tccctggaact gccagccct ctcttccacc gttccatcc tgtgcagctg 840
acacacagct aaggagcctc atagcctggc gggggcagc agagccacac cccaagtgcc 900
tgtgcccaga gggcttcagt cagcygcaca ctctccagg gcacttttag gaaagggttt 960
ttagctagtg ttttctctcg cttttaatga cctcagcccc gcctgcagtg gctagaagcc 1020
agcaggtgcc catgtgctac tgacaagtgc ctcagcttcc ccccgccccg ggtcaggccg 1080
tgaggagccgc tattatctgc gttctctgcc aaagactcgt gggggccatc acacctgccc 1140
tgtgcagcgg agccggacca ggctcttgct tctcactca ggtttgcttc ccctgtgccc 1200
actgctgtat gatctggggg ccaaccacct gtgcgggtgg cctctgggct gcctcccgtg 1260
gtgtgagggc ggggctggtg ctcatggcac ttctctcttg ctcccacccc tggcagcagg 1320
gaagggttt gcctgacac acccagcttt atgtaaatat tctgcagttg ttacttagga 1380
agcctgggga gggcaggggt gccccatggc tcccagactc tgtctgtgcc gagtgtatta 1440
taaaatcgtg ggggagatgc ccggcctggg atgctgtttg gagacggaat aaatgttttc 1500
tcattcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaagggc ggcc 1574

<210> 582

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 582

```

agagtcagga ggcagagctc tgggaatctc accatggcct ggacccctct cctgctcccc 60
ctcctcactt tctgcacagt ctctgaggcc tcctatgagy tgacacagcc accctcggtg 120
tcagtgtccc caggacaaac ggccmggatc acctgctctg gagatgcmmt gccaaamaaaa 180
tatrccttatt ggtaccagca gaagtcaggc caggcccttg tgytgggtcat ctatgaggac 240
accagacgac cctccgcgat ccctgagaga ttctctgcct ccagctcagg gacaatggcc 300
accttgacta tcagtggggc ccagggtggag gatgaagcgg actactactg ctactcaaca 360
gacagcagtt cttattacag ggtgttcggc ggagggacca agctgaccgt cctaggtcag 420
cccaaggctg cccctcgggt cactctgttc ccrcctcct ctgaggagct tcaagccaac 480
aaggccacac tgggtgtgtc cataagtga ttctaccgg gagccgtgac agtggcctgg 540
aaggcagata gcagccccgt caaggcggga gtggagacca ccacaccctc caaacaaaagc 600
aacaacaagt acgcggccag cagctacctg agcctgacgc ctgagcagtg gaagtccac 660
araagctaca gctgccaggc cagcatgaa gggagcaccg tggagaagac agtggcccct 720
acagaatgtt cataggttct caaccctcac cccccaccac gggagactag agctgcagga 780
tcccagggga ggggtctctc ctcccacccc aaggcatcaa gcccttctcc ctgcaactca 840
taaaccctca ataaatattc tcattgtcaa tcagaaaaaa aaaaaaaaaa aaaaaagggg 900
ggggcccggt accmattggc cttnggkggg tggtttnanw ttaatggcck ggtttaaaag 960

```

<210> 583

<211> 541

<212> DNA

<213> Homo sapiens

<400> 583

```

cgccggccgc gccacgtga ycggtccggg tgcaaacacg cgggtcagct gatccggccc 60
aactgcggcg tcatcccggc tataagcgca cggcctcggc gaccctctcc gaccggcccg 120
ccgccccat gcagccctcc agccttctgc cgctcgccct ctgcctgctg gctgcacccg 180
cctccgcgct cgtcaggatc ccgctgcaca agttcacgtc catccgcccg accatgtcgg 240
aggttggggg ctctgtggag gacctgattg ccaaaggccc cgtctcaaag tactcccagg 300
cggtgccagc cgtgaccgag gggcccattc ccgaggtgct caagaactac atggacgccc 360
agtamtacgg ggagattggc atcgggacgc cccccagtg cttcacagtc gtcttcgaca 420
cgggctycty caacctgtgg gtcccctcca tccactgcaa actgctggac atcgcttgct 480
ggatycacca caagtamaac agcgacaagt ccagcaacta cgtgaagaat ggtaactcgt 540
t

```

541

<210> 584

<211> 2968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2961)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2964)

<223> n equals a,t,g, or c

<400> 584

```
aattcggcac gagatcctct ggctgctctg ctccaccgc ccggcccccgc gcaggccccc 60
caccacaat gcacacaact ggaggctcgg ccaggcgccc gccarctggt acaatgacac 120
ctaccccttg tctccccac aaaggacacc ggctgggatt cggatcga tgcgagttat 180
cgcagacctg gacacagagt caagggccca agaggaaaac acctgggtca gttacctgaa 240
aaagggttac ctgacctgt cagacagtgg ggacaagggtg gccgtggaat gggacaaaga 300
ccatggggtc ctggagtccc acctggcgga gaaggggaga ggcattgagc tatccgacct 360
gattgttttc aatgggaaac tctactccgt ggatgaccgg acgggggtcg tctaccagat 420
cgaaggcagc aaagccgtgc cctgggtgat tctntccgac ggcgacggca ccgtggagaa 480
aggcttcaag gccgaatggc tggcagtga ggacgagcgt ctgtacgtgg gcggcctggg 540
caaggagtgg acgaccacta cgggtgatgt ggtgaacgag aacccgaggt ggggtgaagg 600
ggtgggctac aagggcagcg tggaccacga gaactgggtg tccaactaca acgccctgcg 660
ggctgctgcc ggcattccagc cgccaggcta cctcatccat gagtctgcct gctggagtga 720
cacgtgcag cgctgggtct tccctgcgcg ccgcgccagc caggagcgct acagcgagaa 780
ggacgacgag cgcaaggcg ccaacctgct gctgagcgcc tccctgact tcggcgacat 840
cgctgtgagc cacgtcgggg cgggtggctcc cactcacggc ttctcgtcct tcaagttcat 900
ccccaacacc gacgaccaga tcattgtggc cctcaaacc gagggagaca gcggcagagt 960
cgctctctac atcatggcct tcacgttga cgggcgcttc ctgttgccgg agaccaagat 1020
cggaagcgtg aaatacgaag gcatcgagtt catttaactc aaaacggaaa cactgagcaa 1080
ggccatcagg actcagcttt tataaaaaa agaggagtgc acttttgttt tgttttgttc 1140
tttttggaa tgtgcctggg ttggaggtct ggacaggag cccagtcccg ggccccatag 1200
tggtcggggc actggacccc cgggccccac ggaggccgcg gtctgaactg ctttccatgc 1260
tgccatctgg tgggtgatttc ggtcacttca ggcattgact caaggcctgc ctaactggct 1320
gggtcgtttc ttccatccga cctcgtttct ttctttcct atgttctttt gttcagtga 1380
tatccctaga gctcctacca tatgtcaggc cctatgcctc accctgagaa cgcagtnagc 1440
atgaggtgga cctggttgct gggaacccca ggtcaccccc tttcttctct actctgtgcc 1500
tggagcatca tgtccacccc tgcagatcct tggaaaagaa aatgtttatg ttgcagggtg 1560
ttgcatggtc acgagtgagg gcaggccctt ggggacacat ctgcccacag ctgcacaggc 1620
cagggcgcag gcacatctgt tggttctcag gcctcagata aaaccatctc cgcacatcat 1680
ggccagtga cgttttctcc cttcaagaaa attctgtggc tgtgcagtac tttgaagttt 1740
taattattaa cctgctttta ttaaagcagt ttctttctt ataaagtgga atcaccaaat 1800
cttatcacac agagcacagt cctgtagtta ccagcccgcc tccagcagtg cgggagattg 1860
taagggaagc gtggcggtg gtgaagcaag tctcacatgt cggcggttct ggccaatgga 1920
tacaaagata aagaaaatgt tgcctttttc taggaactgt cagaaatcct catgcctttc 1980
aagacttctg tgaatgactt gaatttttta ttccctgcct aggtctgtg aacgaggcct 2040
gtctcttccc tggggtttct ttccatggcc tttatttctc ctcttccagt gggagttttg 2100
caggctcttc tctgtgaaa cttcacgagc gttggctggg cctcggttc gctggagtgt 2160
actccagggt gaaggcagag tgggatttga gaccaggtt aggcacgacc caggctgaga 2220
agggacgttt ccatcattca cagtgcctc cccacagcac tacctacccc cgacccccac 2280
cctcactcct accccacccc gcgatcgtca ggggtgccac ggtgggcccg aggggtgccg 2340
ctctggctgt cctgtgtccg gtccctcaca aacctctccc cctttgaaac tcaagcacag 2400
```

ctgcgaggag ggcagcgagg agggacccct ctctcatggt tgtctctttc ccccgctatg 2460
tcataggttag tggaggaagc gaaggaaagt aacgctgaat gtgacgcatt tctgaagagc 2520
tcagctgtca ccgggcatag cctggaagcc ccaagtctgt tctgactttg cctggctgtc 2580
tccttgacct gcctcctaga tcattgtcct tgatgtccag gctgggtcat ttaaaataga 2640
gatgcaatca ggaaggttgg gggacttggg actgtggctg aattgagacc ttgctgatgt 2700
attcatgtca gcacctgagt cacagcccag gtgcccggaa gcagcctctt cgcataaggca 2760
gtgatttgcg attactttaa agctcacctt tttcttccc ctctctgttc gctgctgtca 2820
gcataatgat tgtgttcctt ccctatggga tccatctgtt ttgtaaacia taaagcgtct 2880
gaggagagtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2940
aaaaacaaaa aaaaaaaaaa nagnagag 2968

<210> 585

<211> 2608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 585

ggcgcgggct aggaaaggag ttggttcgcg caggtgcggc gcctgggtcc ccatggcgct 60
gtggcgcggc tccgcgtacg cggnetctct ggcgctggcc gtgggctgcy tcttcctgct 120
ggagccagag ctgccaggct cggcgctgcy ctctctctgg agctcgctgt gtctggggcc 180
cgcgcctgcy ccccggggac ccgtctcccc cgagggcccg ttggcggcag ctgggacgcy 240
cttatcgtgc ggccagtcg gcgctggcgc cgcgtggcag tgggagtcaa tgcattgtgt 300
gatgtggtgc tctcaggggt gaagctcttg caggcacttg gccttagtcc tgggaatggg 360
aaagatcaca gcattctgca ttcaaggaat gatctggaag aagccttcat tcaattcatg 420
gggaagggag cagctgctga gcgcttcttc agtgataagg aaacttttca cgacattgcc 480
caggttgctc cagagttccc aggagcccag cactatgtag gaggaaatgc agctttaatt 540
ggacagaaat ttgcagccaa ctcagattta aaggttcttc tttgcggtcc agttgggtcca 600
aagctacatg agcttcttga tgacaatgtc tttgttccac cagagtcatt gcaggagtg 660
gatagttcc acctcatttt agagtatcaa gcaggggagg agtggggcca gttaaaagct 720
ccccatgcca accgattcat cttctctcac gaccttcca acggggccat gaatatgctg 780
gaggtgtttg tgtctagcct ggaggagttt cagccagacc tgggtgtcct ctctggattg 840
cacatgatgg agggacaaaag caaggagctc cagaggaaga gactcttgga gggtgtaacc 900
tccatttctg acatccccac tggatttcca gttcacctag agctggccag tatgactaac 960
agggagctca tgagcagcat tgtccatcag caggtctttc ccgcggtgac ttcccttggg 1020
ctgaatgaac aggagctgtt atttctcacc cagtcagcct ctggacctca ctcttctctc 1080
tcttcctgga acggtgttcc tgatgtgggc atggtcagtg acatcctctt ctggatcttg 1140
aaagaacatg ggaggagtaa aagcagagcc tcggatctca ccaggatcca tttccacacg 1200
ctggtctacc acatcctggc aactgtggat ggacactggg ccaaccagct ggcagccgtg 1260
gctgcaggag ctctgtgtggc tgggacacag gcctgcgcca cagaaaccat agacaccagc 1320
cgagtgtctc tgagggcacc ccaagagttc atgacttccc attcggaggc aggtctccag 1380
attgtattaa acccaaacia gccagtagta gaatggcaca gagagggaat atccttccac 1440
ttcacaccag tattggtgtg taaagacccc attcgaactg taggccttg agatgccatt 1500
tcagccgaag gactcttcta ttcggaagta caccctcact attaggaaga ttcttagggg 1560
taatttttct gaggaaggag aactagccaa cttaagaatt acaggaagaa agtgggttgg 1620
aagacagcca aagaaataaa agcagattaa aytgtatcag gtacattcca gcctgttggc 1680
aactccataa aaacatttca gattttaatc cgaatttagc taatgagact ggatttttgg 1740

tttttatggt gtgtgtcaca gagctaaaaa ctcagttccc aaatccccag tttatgcagc 1800
gccatcaggt attttaagct aaacttcttc acccctgaga gcatgtcagc tggagaaaag 1860
cagttcttcc ttgcccactt gagaagtgca cgcccactca cccaacatcc tggctcttag 1920
gaaagcctca tgtgagggtc ctctttcttt cagctcagtg cccatgggca aggatcatga 1980
tttccattcc gtgttacaat gacaatatat aatgagcata accttctcag tctcctgctc 2040
tcaaatttag gacagagccg ctāaggacaa aacaatccct cccgtgcttt atgatggcag 2100
caggggctgg ggagcctctg agggactctt tcattctgca gttgtctgga agcctgggtg 2160
gcgtcatgag ctgaaggatc atgctttcct gtcctggctc catagggtat aggtggtg 2220
gtgaaagggt cacgtggccc aggtgaact tcattgccta gctttggatg tgctttctgc 2280
cataaagact gatttttggt cgttctgagc cttcaaggaa tttgtttttt acaactggaa 2340
tatgtcctg tgtgtgttaa cagatcatgg atgttttatg ttttactga tcatttaaag 2400
agtttgacct cagagctcca ggatcatcag taaatttgc atgttatata tttatttttt 2460
tataaatcaa gacttctgtg tgctcttaaa tatattaaaa acaatttaca tttcaggaat 2520
tctgtctgta attgattttt gtctccatca ccactctgga accagataag ataaaaatca 2580
ttctgatctt caaaaaaaaa aaaaaaaaa 2608

<210> 586

<211> 1893

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1883)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<400> 586

cccacgcgtc cgcggacgcg tgggcgcgcg ggagctggga ggctgcgaga tccctaccgc 60
agtagccgcc tctgccgccg cggagcttcc cgaacctctt cagccgcccg gagccgctcc 120
cggagcccg ccgtagaggc tgcaatcgca gccgggagcc cgcagcccg cccccagcc 180
cgccgccgcc cttcagggc gccccaggcc gcgccatggt gaaggtgacg ttcaactccg 240

```

ctctggccca gaaggaggcc aagaaggacg agcccaagag cggcgaggag gcgctcatca 300
tcccccccgga cgccgtcgcg gtggactgca aggaccaga tgatgtgga ccagttggcc 360
aaagaagagc ctggtgttgg tgcattgtgt ttggactagc atttatgctt gcaggtgtta 420
ttctaggagg agcatacttg tacaatat ttgcacttca accagatgac gtgtactact 480
gtggaataaa gtacatcaaa gatgatgtca tcttaaatga gccctctgca gatgccccag 540
ctgctctcta ccagacaatt gaagaaaata ttaaaatctt tgaagaagaa gaagttgaat 600
ttatcagtgt gcctgtccca gagtttgag atagtgatcc tgccaacatt gttcatgact 660
ttaacaagaa acttacagcc tatttagatc ttaacctgga taagtgtat gtgatccctc 720
tgaacacttc cattgttatg ccaccagaa acctactgga gttacttatt aacatcaagg 780
ctggaaccta tttgcctcag tcctatctga ttcattgagca catggttatt actgatcgca 840
ttgaaaacat tgatcacctg ggtttcttta tttatcgact gtgtcatgac aaggaaaactt 900
acaaactgca acgcagagaa actattaaag gtattcagaa acgtgaagcc agcaattgtt 960
tcgcaattcg gcattttgaa aacaaatttg ccgtggaaac ttttaattgt tcttgaacag 1020
tcaagaaaaa cattattgag gaaaaatta atcacagcat aacccaccc tttacatttt 1080
gtgcagtgat tattttttaa agtcttcttt catgtaagta gcaaacaggg ctttactatc 1140
ttttcatctc attaatcaa ttaaaaccat taccttaaaa tttnaaaaaa aaaaaaaaaa 1200
aggcccgccg cgctcgccct tccgccccgc gtccagctcg cccagctcg ccagcgccg 1260
ccgcgccctg gccaaaggct caacggacca caccaaaatg ccatctcaa tggaacacgc 1320
catggaaacc atgatgttta catttcacaa attcgctggg gataaaggct acttaacaaa 1380
ggaggacctg agagtactca tggaaaagga gttccctgga tttttgaaa atcaaaaaga 1440
ccctctggct gtggacaaaa taatgaagga cctggaccag tgtagagatg gcaaagtggg 1500
cttcagagc ttcttttccc taattgcggg cctcaccatt gcatgcaatg actattttgt 1560
agtacacatg aagcagaagg gaaagaagta ggcagaaatg agcagttcgc tcctccctga 1620
taagagttgt cccaaagggt cgcttaagga atctgcccc cagcttccc catagaagga 1680
tttcatgagc agatcaggac acttagcaaa tgtaaaaata aaatctaact ctcatgtgac 1740
aagcagagaa agaaaagtta aataccagat aagcttttga tttttgtatt gtttgcattc 1800
ccttgccctc aataaataaa gttctttttt agttccaaaa aaaaaaaaaa ggcggccgtt 1860
taarnatcc aasttacgta ccntgcntgc gan 1893

```

<210> 587

<211> 2463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2413)

<223> n equals a,t,g, or c

<400> 587

```

ttggactctt gggcacagga tttgcatcag gattgtgaca tactagagtc gacttcaatg 60
ttcctatgaa gaacaaccag ataacaaaca accagaggat taaggctgct gtcccaagca 120
tcaaatctct cttggacaat ggagccaagt cggtagtcct tatgagccac ctaggccggc 180
ctgatggtgt gcccatgcct gacaagtact ccttagagcc agttgctgta gaactcaaat 240
ctctgctggg caaggatgtt ctgttcttga aggactgtgt aggccagaa gtggagaaaag 300
cctgtgccaa cccagctgct gggctgtgca tcctgctgga gaacctccgc tttcatgtgg 360
aggaagaagg gaagggaaaa gatgcttctg ggaacaaggt taaagccgag ccagccaaaa 420
tagaagcttt ccgagcttca ctttccaagc taggggatgt ctatgtcaat gatgcttttg 480
gcaactgtca cagagccac agctccatgg taggagtcaa tctgccacag aaggctgggtg 540
ggtttttgat gaagaaggag ctgaactact ttgcaaaggc cttggagagc ccagagcgac 600
ccttccctggc catcctgggc ggagctaaag ttgcagacaa gatccagctc atcaataata 660

```

```

tgctggacaa agtcaatgag atgattattg gtggtggaat ggcttttacc ttccttaagg 720
tgctcaacaa catggagatt ggcacttctc tgtttgatga agagggagcc aagattgtca 780
aagacctaat gtccaaagct gagaagaatg gtgtgaagat taccttgccct gttgactttg 840
tcaactgctga caagtttgat gagaatgccca agcactggtg gcttctggca 900
tacctgctgg ctggatgggc ttggactgtg gtcctgaaag cagcaagaag tatgctgagg 960
ctgtcactcg ggctaagcag attgtgtgga atggtcctgt gggggtattt gaatgggaag 1020
cttttgcccg gggaaccaa gctctcatgg atgaggtggt gaaagccact tctaggggct 1080
gcatcaccat cataggtggt ggagacactg ccacttgctg tgccaaatgg aacacggagg 1140
ataaagtcag ccatgtgagc actgggggtg gtgccagttt ggagctcctg gaaggtaaag 1200
tccttcctgg ggtggatgct ctcagcaata tttagtactt tcctgccttt tagttcctgt 1260
gcacagcccc taagtcaact tagcattttc tgcactcca cttggcatta gctaaaacct 1320
tccatgtcaa gattcagcta gtggccaaga gatgcagtgc caggaaccct taaacagttg 1380
cacagcatct cagctcatct tcaactgacc ctggatttgc atacattctt caagatccca 1440
tttgaatttt ttagtgacta aaccattgtg cattctagag tgcataatatt tatattttgc 1500
ctgttaaaaa gaaagtgagc agtggttagct tagttctctt ttgatgtagg ttattatgat 1560
tagctttgtc actgtttcac tactcagcat ggaaacaaga tgaaattcca tttgtaggta 1620
gtgagacaaa attgatgatc cattaagtaa acaataaaaag tgtccattga aaccgtgatt 1680
tttttttttt tcctgtcata ctttgtagg aagggtgaga atagaatctt gaggaacgga 1740
tcagatgtct atattgctga atgcaagaag tggggcagca gcagtggaga gatgggacaa 1800
ttagataaat gtccattctt tatcaagggc ctactttatg gcagacattg tgctagtgtc 1860
tttattctaa cttttatttt tatcagttac acatgatcat aatttaaaaa gtcaaggctt 1920
ataacaaaaa agccccagcc cattcctccc attcaagatt cccactcccc agaggtgacc 1980
actttcaact cttgagtttt tcagggtatat acctccatgt ttctaagtaa tatgcttata 2040
ttgttcactt cttttttttt tattttttta agaaatctat ttcataccat ggaggaaggc 2100
tctgttccac atatatattoc acttcttcat tctctcggtg tagttttgtc acaattatag 2160
attagatcaa aagtctacat aactaataca gctgagctat gtagtatgct atgattaaat 2220
ttacttatgt aacttttatt gtctttggca ttaacagtgt ttcaaaaaat tttctgtgta 2280
taccatcag tgattcatte ccaaatcttc tagaagcata agtgtctcaa tatattaaaa 2340
catattgaat aatccttgtt agagttatcc ctgcaggagt ccttagtgct cctttatcca 2400
attgtactt gangccctct aggcagggtg tacagctagc tggtgctctg gtatttccta 2460
taa 2463

```

<210> 588

<211> 1945

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1939)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1945)

<223> n equals a,t,g, or c

<400> 588

```

acaggatcta cccctctgc agcccttcaa gaagaggtat gattgctacc acttttcccc 60
acaaagtgac gaaaggaaac agcgacggaa gcgcaaccga accctggaat tgggtgtctcg 120
actggtccat tcccggccca cccccattaa ccggtctgag ccaactcccag gacgaagtca 180
aggcctcggg aggcgactac aactcccagc aggtcagaca gctccgcccg cgctgattct 240
ccattggcct tccgggggtg gggattagat gggaggtggc cgtggggctg cggccgggat 300
ttgtcccctc ttcggcttcc gtagaggaa gggcgcgac cttcatttg ggtttcgggt 360
ccccccctc cccttccccg gggcttggg gtgacattgc accgcgccc tcgtgggggc 420
gcgttgccac cccacgcgga ctcccagct ggcgcgcccc tcccatttg ctgtcctgg 480
caggccccca ccccccctc cacctgacca gccatgggg ctgcggtgtt ttctggctgc 540
actttcgtcg cgttcggccc ggccttcgag cttttcttga tcaactgtggc tggggacccg 600
cttcgcgtta tcatcctgg cgcaggggca tttttctggc tggctcctc gctcctggcc 660
tctgtgtctt ggttcattct ggtccatgt accgaccgg cagatgccc gctccagtac 720
ggcctcctga tttttgggtg tgctgtctct gtccttctac aggaggtgt ccgctttgcc 780
tactacaagc tgcttaagaa ggcagatgag gggttagcat cgctgagtga ggacggaaga 840
tcacccatct ccatccgcca gatggcctat gtttctggtc tctccttcg tcatcagc 900
ggtgtcttct ctgttatcaa tttttggct gatgcactg ggccagggt ggttgggac 960
catggagact caccctatta ctctctgact tcagccttc tgacagcag cattatcctg 1020
ctccatacct tttggggagt tgtgttcttt gatgcctgt agaggagac gtactgggct 1080
ttgggctgg tgggtgggag tcacctactg acatcgggac tgacattcct gaaccctgg 1140
tatgaggcca gcctgtgccc catctatgca gtcactgtt ccatggggct ctgggccttc 1200
atcacagctg gagggctcct ccgaagtatt cagcgcagc tcttgtgtaa ggactgacta 1260
cctggactga tcgcctgaca gatccacct gcctgtccac tgcccatgac tgagcccagc 1320
cccagcccgg gtccattgcc cacattctct gtctccttct cgtcgggtc cccactacc 1380
tccagggttt tgctttgtcc ttttgtgacc gttagtctct aagctttacc aggagcagcc 1440
tgggttcagc cagtcagtga ctgggtgggt tgaatctgca cttatcccca ccacctgggg 1500
acccccctgt tgtgtccagg actccccctg tgtcagtgt ctgctctcac cctgcccagg 1560
actcacctcc ctccccctct gcaggccgac ggcaggagga cagtcgggtg atgggtgtatt 1620
ctgccctgag catcccaccc gaggactgag ggaacctagg ggggacccct gggcctgggg 1680
tgccctcctg atgtcctcgc cctgtatttc tccatctcca gttctggaca gtgcagggtg 1740
ccaagaaaag ggacctagtt tagccattgc cctggagatg aaattaatgg aggctcaagg 1800
atagatgagc tctgagtttc tcagtactcc ctcaagactg gacatcttgg tcttttcty 1860
aggcctgagg ggaaccatt tttggtgtga taaataccct aaatgsctt ttttctttt 1920
tgaggtgggg ggaagggang aaggn 1945

```

<210> 589

<211> 816

<212> DNA

<213> Homo sapiens

<400> 589

```

tcgaccacag cgtccggtca tggcgccccg aagcctcctc ctgctgctct caggggccc 60
ggccctgacc gatacttggg cgggtcccca ctccctgagg tatttcagca ccgctgtgtc 120
gcggcccggc cgcggggagc ccgctacat cgccgtggag tacgtagacg acacgcaatt 180
cctgcggttc gacagcgagc ccgcgattcc gaggatggag ccgcgggagc cgtgggtgga 240
gcaagagggg ccgcagtatt gggagtggac cacagggtac gccaaaggcca acgcacagac 300
tgaccgagtg gccctgagga acctgctccg ccgctacaac cagagcgagg ctgggtctca 360
caccctccag ggaatgaatg gctgcgacat ggggcccagc ggacgcctcc tccgcgggta 420
tcaccagcac gcgtacgagc gcaaggatta catctccctg aacgaggacc tgcgctcctg 480
gaccgcggcg gacaccgtgg ctcatatcac ccagcgcttc tatgaggcag aggaatatgc 540

```

```

agaggagttc aggacctacc tggagggcga gtgcctggag ttgctccgca gatacttgga 600
gaatgggaag gagacgctac agcgcgcaga tcctccaaag gcacacgttg cccaccaccc 660
catctctgac catgaggcca ccctgaggtg ctggggccctg ggcttctacc ctgaggagat 720
cacgctgacc tggcagcggg atggggagga acagaccag gacacagagc ttgtggagac 780
caggcctgca ggggatggaa ccttcagaag tgggct 816

```

<210> 590

<211> 2307

<212> DNA

<213> Homo sapiens

<400> 590

```

gcccacgcgt ccggcgcccc cgagcagcgc ccgcgccttc cgcgccttct ccgccgggac 60
ctcgagcgaa agacgcccgc ccgccgccca gccctcgctt ccctgcccac cgggcacacc 120
gcgcgcgccac cccgaccccc ctgcgcacgg cctgtccgct gcacaccagc ttgttggcgt 180
cttcgtcgcc gcgctcgccc cgggctactc ctgcgcgcca caatgagctc ccgcatcgcc 240
agggcgctcg ccttagtcgt cacccttctc cacttgacca ggctggcgct ctccacctgc 300
cccgctgcct gccactgccc cctggaggcg cccaagtgcg cggcgggagt cgggctggct 360
cgggacggct gcggctgctg taaggtctgc gccaaagcag tcaacgagga ctgcagcaaa 420
acgcagccct gcgaccacac caaggggctg gaatgcaact tcggcgccag ctccaccgct 480
ctgaagggga tctgcagagc tcagtcagag ggcagaccct gtgaatataa ctccagaatc 540
taccaaaacg gggaaagtct ccagcccaac tgtaaacatc agtgcacatg tattgatggc 600
gccgtgggct gcattcctct gtgtcccca gaactatctc tccccaactt gggctgtccc 660
aaccctcggc tgggtcaaagt taccgggcag tgctgcgagg agtgggtctg tgacgaggat 720
agtatcaagg accccatgga ggaccaggac ggcctccttg gcaaggagct gggattcgat 780
gcctccgagg tggagttgac gagaaacaat gaattgattg cagttggaaa aggcagctca 840
ctgaagcggc tccctgtttt tggaatggag cctcgcatcc tatacaacct tttacaaggc 900
cagaaatgta ttgttcaaac aacttcatgg tcccagtgct caaagacctg tggaaactgg 960
atctccacac gagttaccaaa tgacaacctt gagtgcgcgc ttgtgaaaga aaccgggatt 1020
tgtgaggtgc ggccttgtgg acagccagtg tacagcagcc tgaaaaaggg caagaaatgc 1080
agcaagacca agaaatcccc cgaaccagtc aggtttactt acgctggatg tttgagtgtg 1140
aagaaatacc ggcccagta ctgcgggtcc tgcgtggacg gccgatgctg cacgccccag 1200
ctgaccagga ctgtgaagat gcggttccgc tgcgaagatg gggagacatt ttccaagaac 1260
gtcatgatga tccagtcctg caaatgcaac tacaactgcc cgcattgcaa tgaagcagcg 1320
tttcccttct acaggctgtt caatgacatt cacaatttta gggactaaat gctacctggg 1380
tttccagggc acacctagac aaacaaggga gaagagtgtc agaatacaga tcatggagaa 1440
aatgggcggg ggtggtgtgg gtgatgggac tcattgtaga aaggaagcct tgctcattct 1500
tgaggagcat taaggatatt cgaaactgcc aagggtgctg gtgcggatgg acactaatgc 1560
agccacgatt ggagaatact ttgcttcata gtattggagc acatgttact gcttcatttt 1620
ggagcttgtg gagttgatga ctttctgttt tctgtttgta aattatttgc taagcatatt 1680
ttctctaggc ttttttccct ttggggttct acagtcgtaa aagagataat aagattagtt 1740
ggacagttta aagctttttat tcgtcctttg acaaaagtaa atgggagggc attccatccc 1800
ttcctgaagg gggacactcc atgagtgtct gtgagaggca gctatctgca ctctaaactg 1860
caaacagaaa tcagggtgtt taagactgaa tgttttatct atcaaaatgt agcttttggg 1920
gagggagggg aaatgtaata ctggaataat ttgtaaatga ttttaatttt atattcagtg 1980
aaaagatttt atttatggaa ttaaccattt aataaagaaa tatttaccta aaatctgagt 2040
gtatgccatt cggtatTTTT agaggtgctc caaagtcatt aggaacaacc tagctcacgt 2100
actcaattat tcaaacagga cttattggga tacagcagtg aattaagcta ttaaaataag 2160
ataatgattg cttttatacc ttcagtagag aaaagtcttt gcatataaag taatgtttta 2220
aaaacatgta ttgaacacga cattgtatga agcacaataa agattctgaa gctaaaaaaa 2280
aaaaaaaaaa aaaaaaaaaa actcgta 2307

```

<210> 591
<211> 1438
<212> DNA
<213> Homo sapiens

<400> 591
acagaagggg agacgtggcg cagcgactcg gaggttcgcc tccagcttgc gcatcatctg 60
cggccgggtc ccgatgagcc tcctgttgcc tccgctggcg ctgctgctgc ttctcgcggc 120
gcttgtggcc ccagccacag ccgccactgc ctaccggccg gactggaacc gtctgagcgg 180
cctaaccgcg gcccgggtag agacctgcgg gggatgacag ctgaaccgcc taaaggagg 240
gagtttgaag gaagagggtc ctagctctgt tccccctgag cctcttgggg agtgggcaac 300
atggtcccaa tgactggggc ggggaggggg gaaggatccc taggctgaga gtctagccta 360
ggctgggagt ctagcctgca cctgacttgc tttatgacct cactgggctt cagtgtctcg 420
tctgtacctc gagtagactg aggtcatggt ctctgatgct ctggttcctc cccaggtgaa 480
ggctttcgtc acgcaggaca ttccattcta gtatccttct gttctggggg aggggaaatg 540
ggatgggcac ctgggagaat ctccacgtaa cttcagaaag ggggtggcaga tggttttcaa 600
ctgacaattg aattgatyggt tagtggctcc cagaggattc tgaggtgggc tccatgttgg 660
gtgggcaaga gagattgact agtgatgact gccacagaat ggagaggagg gccctttact 720
tctttgaacc ctaattttct cacgtataag cggaraccct ggccccctcc gggcacagag 780
taagctctga gcaaaggagg caatgctgtt cccatcagta aggctgcgga aaccaccacc 840
tcctctgcc caccaccccg ctccctaaca ccacctccag tcacaacctg gtgatgaaac 900
acctccctgg ggccgaccct gagctcgtgc tgcctgggccc cgctacgagg aactagagg 960
gaggccgtgg gaggtgggct gggggcgagg ccagakgcga ggyccagcct gctgaccccg 1020
cccctcctcc gcctcagcgc atcccactca gtgaaatgac ccgcgaagag atcaatgcgc 1080
tagtgacagga gctcgggcttc taccgcaagg cggcgcccga cgcgcagggtg ccccccgagt 1140
acgtgtgggc gcccgcggaag cccccagagg aaacttcgga ccacgctgac ctgtaggtcc 1200
gggggcgcg cgagctggg acctacctgc ctgagtcctg gagacagaat gaagcgctca 1260
gcatcccggg aatacttctc ttgctgagag ccgatgcccg tccccggggc agcagggatg 1320
gggttgggga ggttctccca accccacttt cttccttccc cagctccact aaattccctc 1380
ctgccttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gcggccgc 1438

<210> 592
<211> 1078
<212> DNA
<213> Homo sapiens

<400> 592
ggagctcgcg cgctgcagg tcgacactag tggatccaaa gaattckgca cgagcacacc 60
tgkgcagggtg gaagtggatg tggacgagca ggcctggcg gaagggtggtg gggctctgctc 120
cttccacctg caggcagccc tgggggaaat gctgccctcc ccacccccca gggctctgag 180
tgtggaggggc aggggcagga atggcgctcc tcaggagcca gcatggccct ggagcccccg 240
agtccctgag gaaagtgttg atgccctcca gcatggggct ccttctcatc ctgtacgccc 300
ggctgccacc cagcctggtg ggccaggcag gcagggtgat aggggtgggca ggccgggcag 360
gggggcaggc ggtcaggcag ccctctccca cagtcctcat cgacggcggtg gagtgcagcg 420
acgtcaagtt cttccagctg gccgcgcagt ggtcctcgca cgtgaagcac tccccatct 480
gcatcttcgg aactccaag gccaccttct agccccaccc accagggggc ccacctcctg 540
ccccatgctg tgagggggcc agctgcattt ctgttaacat ttcagtttac tacagagaca 600
gacgcttaaa acacaaagag aaacagctct aagtatgaat gtgctcacia cgtggaaact 660
aacgggggag ctctgccag gagccgaata actgctctgc ttattaaccc gaacgttcgg 720
cccggggctg ggaagccaga aggacgatgc tgagccatgg atcgcggaag gcgtcctctg 780


```

gcctcaggag ccacccagag cctcacaggc tgagttcttg cctctgtgtc ctgtccttcc 840
tggaagttag gactctgctt cctcaggag cccggggaag gcggagctca gtggccacag 900
gccgagggcc atggggccgc tcagtcctgt tgggggtgtc ctgagttgag cctggggggg 960
ccgtcctgcc cgcctaagag atgccccag caccgcacac tcgtgggtcc caataaactc 1020
ctscctgcgg cggaggtttt atagcaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaa 1078

```

<210> 593

<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2452)

<223> n equals a,t,g, or c

<400> 593

```

tcgacccacg cgtccggcga acttgggacc cgctggcctc gctcgggtgcg cgcctccctc 60
cccgcacgca gcccgcagag cgctcgcggg tccccaggat cgacccgtac ggattcgagc 120
ggcctgagga cttcgacgac gccgcctacg agaagttttt ctccagctac ctggtcacgc 180
tcacccgcag gcgatcaaat ggtcccggct gctgcagggc gggggcgctcc ccaggagccg 240
gacagtgaag cgctatgtcc ggaaaggggt cccgctggag caccgtgccc gcgtctggat 300
ggtgctgagt gggggccarg cgcaratgga ccagaatccc ggctactacc accagcttct 360
ccaggggagag agaaacccca ggctggagga cgccatcagg acagacctga accggacctt 420
ccccgacaac gtgaagtctc ggaagaccac ggacccctgc ttacagagga ccctgtacaa 480
tgtgtgtgtg gcatatgggc accataacca gggagtgggc tactgccagg gaatgaattt 540
tatagcagga tatctgattc ttataacaaa taatgaagaa gaatcttttt ggctgttaga 600
tgctcttggt ggaagaatac taccagatta ctacagcccc gccatgctgg gcctgaagac 660
cgaccaggag gtcctcgggg agctggtgcg ggcgaagctg ccggtgtgtg gggccctgat 720
ggagcgtctc ggtgtgctgt ggacgctgct ggtgtcccg cgtgttcatt gcctgtttgt 780
ggacatcttg cccgtggaga cagtgtctcg gatctgggac tgtttgkttt acgaaggctc 840
gaagattatc ttccgggtgg ccctgacctt aattaagcag caccaggagt tgattttgga 900
agccaccagc gttccagaca tttgcgataa gtttaagcag ataaccaaag ggagtttcgt 960
gatggagtgt cacacgttta tgcaggtgtg tggggctgca cgtggctcag tccccccca 1020
ggggggcccc cctcacctgc agcmcggggg ctgctctgac caccggagg gtgcacagga 1080
ygggcaccag tgggcatagg gcacaggatg agcctccagc tctgtcctgc atctgcccc 1140
tgcgcctggc ctccgagggc tttcctgtct atggcggcct gtcttcttgg ccctggcact 1200
gcggacgctg ctctggctcc taatggctgt actcatctgc tgtgtgtggt gccagaagtg 1260
tggcttcccc agggccggct ycccactggg tcctggacct ggcgcaggcc gtayagactc 1320
aggtcctgat gagggcgttg tgggagctgt acctgacagg ccttctgagg aagccaagac 1380
gccaggagag gctcaggcct gggagttagt agtttcttaa gagggagtgg aggtcgggg 1440
ccactctggg tgcagcatgg caaacgtggg cggtatattc gcagctgggc cttcatcaaa 1500
gagaagacca tgttgccgg gcgcggtggc tcacgcctgc agtcccagca ctttgggagg 1560
ccaaggcgtg tggatcacct gaggtcagga gttcaagacc agcctggcca acacggtgaa 1620
accccgctct tactaaaaaa tacaaaaatt agccagggtg ggtggctcac gcttatgtag 1680
tcccagttac tcgggaggct gaggcacgag aatcacttga acctgggagc ggaggttgca 1740

```

```

gtgagccgag atcgcgccac tgcactccag cctgggcaac agagtgagac tctgtctcaa 1800
aaaaaaaaaa aaagtctaata ggaagcagat ggcccttttct tccaccgttt gattcattta 1860
acattttctga gcagcaaagc tgcagtcyta ggccccaggg caggagttag atggtgacaa 1920
tctgtgggtc accccagaag cccttggatg tggactgtc ctccctcacc tcacacgagg 1980
cctgtctgtc tgcctgccag tctgggagag ctaacgtaga aatgggttgt tgggtttgtt 2040
ttyaaactaa ctgtttgcct tccagaaaat attttcagaa cctggaagct tatccatggc 2100
caccgtcgcc aangctccgc gagagctgca gggcccggct gctggcacag gggtagcgt 2160
gcctgtcccc tgcgttgctc gtctctacac tgacgatgcc cctttccaga gttgacactg 2220
gaccaacttt cactgctttc ctttttagtg ttgtaaatac ttgacatcrc tacacttttag 2280
ttgtgaattt tttaaaagag cagtttaaaa tcaggtcatt ctaccagctt ttgatgatta 2340
gctatgaagt catacttttt aaagaaaact tatttttacc tgagagatca ataatatata 2400
aaatgtgagt gtgggtttgt atctaataaa gtatgccaac acctgtgttt gngatcagtt 2460
ctcagctgac tggaaattaa catagtgagt gg 2492

```

<210> 594

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1903)

<223> n equals a,t,g, or c

<400> 594

```

aatgaatgta cgggtccgga attccgggtc gacccacgcg tcgcgtccgc cccgcgagca 60
cagagcctcg cctttgccga tccgcgcgcc gtccacaccc gccgccagct caccatggat 120
gatgatatcg ccgcgctcgt cgtcgacaac ggctccggca tgtgcaaggc cggcttcgcy 180
ggcgacgatg cccccggggc cgtcttcccc tccatcgtgg ggcgccccag gcaccagggc 240
gtgatggtgg gcatgggtca gaaggattcc tatgtgggcy acgaggccca gagcaagaga 300
ggcatcctca ccctgaagta ccccatcgag cacggcatcg tcaccaactg ggacgacatg 360
gagaaaatct ggcaccacac cttctacaat gagctgcgtg tggctcccga ggagcacccc 420
gtgctgctga ccgaggcccc cctgaacccc aaggccaacc gcgagaagat gacccagatc 480
atgtttgaga ctttcaacac cccagccatg tacgttgcta tccaggctgt gctatccctg 540
tacgcctctg gccgtaccac tggcatcgtg atggactccg gtgacggggg caccacact 600
gtgcccattc acgaggggta tgccctcccc catgccaatcc tgcgtctgga cctggctggc 660

```

```
cgggacctga ctgactacct catgaagatc ctcaccgagc gcgggtacag cttcaccacc 720
acggccgagc gggaaatcgt gcgtgacatt aaggagaagc tgtgtacgt cgccctggac 780
ttcgagcaag agatggccac ggctgcttcc agtcctctcc tggagaagag ctacgagctg 840
cctgacggcc aggtcatcac cattggcaat gagcggttcc gctgccctga ggcactcttc 900
cagccttcct tcctgggcat ggagtcctgt ggcattccacg aaactacctt caactccatc 960
atgaagtgtg acgtggacat ccgcaaagac ctgtacgcca acacagtgt gtctggcggc 1020
accaccatgt accctggcat tgccgacagg atgcagaagg agatcactgc cctggcacc 1080
agcacaatga agatcaagat cattgctcct cctgagcgca agtactccgt gtggatcggc 1140
ggctccatcc tggcctcgct gtccaccttc cagcagatgt ggatcagcaa gcaggagtat 1200
gacgagtccg gcccctccat cgtccaccgc aaatgcttct aggcggacta tgacttagtt 1260
gcgttacacc ctttcttgac aaaacctaac ttgcgcagaa aacaagatga gattggcatg 1320
gctttatttg ttttttttgt tttgttttg ttttttttt ttttttggt tgactcagga 1380
tttaaaaaact ggaacgggtga aggtgacagc agtcggttgg agcgagcatc ccccaaagtt 1440
cacaatgtgg ccgaggactt tgattgcaca ttgtgtttt tttaatagtc attccaaata 1500
tgagatgcr tgttacagga agtcccttgc catcctaaaa gccacccac ttctctctaa 1560
ggagaatggc ccagtcctct cccaagtcca cacaggggag gtgatagcat tgctttcgtg 1620
taaattatgt aatgcaaaat ttttttaatc ttgccttaa tactttttta ttttgtttta 1680
ttttgaatga tgagccttcg tgccccccct tccccctttt ttgtcccca acttgagatg 1740
tatgaaggct tttggtctcc ctgggagtgg gtggaggcag ccagggtcta cctgtacact 1800
gacttgagac cagttgaata aaagtgcaca ccttaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaanag gggggggccc ccnanggggc ccna 1904
```

<210> 595

<211> 337

<212> DNA

<213> Homo sapiens

<400> 595

```
ctagttctag atcgcgagcg gcgccctttt ttttttytt tgttaagtcg ttccctctac 60
aaaggacttc ctagtgggtg tgaaaggcag cgggtggccac agaggcggcg gagagatggc 120
cttcagcrgt tcccaggctc cctacctgag tccagctgtc cccttttctg ggactattca 180
aggaggtctc caggacggac ttcagatcac tgtcaatggg accgttctca gctccagtgg 240
aaccagtgga aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtagct 300
ggtgtgcaca gcaggcagaa cggaagctgg ggggccc 337
```

<210> 596

<211> 1288

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<400> 596

```
gcctccgccc cctcaacctt cgcggggcgc gggccgcagc ttttcggttc acagcgggca 60
gggaaagccg cgggaagggt actccaggcg agaggcggac gcgagtcgtc gtggcaggaa 120
aagtgactag ctccccttcg ttgtcagcca gggacgagaa cacagccacg ctcccaccg 180
gctgccaacg atccctcggc ggcgatgtcg gccgccggtg cccgaggcct gcgggccacc 240
taccaccggc tcctcgataa agtggagctg atgctgcccg agaaattgag gccgttgtac 300
aaccatccag caggtcccag aacagtttty ttctgggctc caattatgaa atgggggttg 360
gtgtgtgtcg gattggctga tatggccaga cctgcagaaa aacttagcac agctcaatct 420
gctgttttga tggctacagg gtttatttgg tcaagatact cacttgtaat tattccaaaa 480
aattggagtc tgtttgctgt taatttcttt gtgggggcag caggagcctc tcagcttttt 540
cgtatttga gatataacca agaactaaaa gctaaagcac acaaataaaa gagttcctga 600
tcacctgaac aatctagatg tggacaaaac cattgggacc tagtttatta tttggttatt 660
gataaagcaa agctaactgt gtgttttagaa ggcactgtaa ctggtagcta gttcttgatt 720
caatagaaaa atgcagcaaa cttttaataa cagtctctct acatgactta aggaacttat 780
ctatggatat tagtaacatt tttctaccat ttgtccgtaa taaaccatac ttgctcgtat 840
atacccctg cctccttctg ttccagtcag ccaacatatg tacataaaaag aacacacaaa 900
ttcaagaagt tggaagatta aattatctgc ttatttagtg taggatggc aggtagctag 960
ctataagtga aaggaaattt tgctgaagag actgagaaat gggtagtgga atgactatca 1020
agatgacctc aaactattta aaaacatttt aacttgccat gaagaatctt gatgattttt 1080
gtataaatgt tgtataaaat tcttttacag ctacagattt ttaaatagga tcattgtaar 1140
gattaatgag ataatgtttt aacatagtgc ctgggtccat gataagtgtt aaatttttca 1200
attaccctca gtaactgata atgtagcaag aaaatactct atattcagac agacctgaat 1260
ttgatcccag ctctatacta ccntngna 1288
```

<210> 597
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1004)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 597

```

agcgcctgca ggtcgacact agtggatcca aagaattcgt gcacgtggaa aaaccaatct 60
gagaagaaca acctaccttg tccttgatga agcagataga atgcttgata tgggctttga 120
accccaaata aggaagattg tggatcaaat aagacctgat aggcaaaactc taatgtggag 180
tgcgacttgg ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca 240
tataaacatt ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt 300
gtgtcatgac gtagaaaagg atgaaaaact tattcgtcta atggaagaga tcatgagtga 360
gaaggagaat aaaaccattg tttttgtgga aaccaaaga agatgtgatg agcttaccag 420
aaaaatgagg agagatgggt ggcctgccat ggggatccat ggtgacaaga gtcaacaaga 480
gcgtgactgg gttctaaatg aattcaaaca tggaaaagct cctattctga ttgctacaga 540
tgtggcctcc agagggctag atgtggaaga tgtgaaattt gtcacatcaatt atgactaccc 600
taactcctca gaggattata ttcacgaat tggagaact gctcgcagta ccaaaacagg 660
cacagcatat actttcttta cacctaataa cataaagcaa gtgagcgacc ttatctctgt 720
gcttcgtgaa gctaatacaag caattaatcc cmagttgctt cagttggtcg aagacagagg 780
ttcaggctgt tccaggggta gaggaggcat gaaggatgac cgtcgggaca gatactctgc 840
gggcaaaagg ggtggattta atacctttag agacaggga aattatgaca gaggttactc 900
tagcctgctt aaaagagatt ttggggcaaa aactcanaat gngggttaca gtgcttgcaa 960
attcaccaat gggagctttg gaagtaattt tgggncttgc tgggnattcng gaccagtttt 1020
aggactggga attccaacan ggccttacc nc 1052

```

<210> 598

<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1422)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 598

```
ccgccgccat gggaccacgt ggggtaagct ggggttgagag cagcggggcgc cgttaaggag 60
ctgcagagtc acgtctgtgc aaagactgca ccagagccct tctgtgtcac ggcgggctgt 120
gcaccccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaagtgt tatcttcttc 240
tgtcttctcc ctccctgaat ctattttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggctct ggagaagatg 360
ggcaacaaag agccagggag tcatggacat cgcagcgacg cagaccccag caggttcagt 420
cccgctgtgc caccagctgt ccagctgggt gtctggaggg aagagggcag aggagggtca 480
tgtcccttca gctgggggag gggcccagtg agctccacgt ggctttttcc caaaggggagc 540
aagagggaaag gattgggcga gaaaacaatg gagaggggac ctgcgaagga aaacagggag 600
gaagtgagcg gtttgatcag cctgctatca cgggtgtctg gctctcttat ttagccaggc 660
gcttaaggga cagatacatc acatcctaag tttgggaaag gcctttgacc catgtcatct 720
gagcgtctcc tccagtagct ctgaaagctg tggacaccaa tggccaggat tccttctccc 780
ctgggttttg aggatccctg ggtcttctga gactggccag gagagggatg gtggggccag 840
tgggtgtgtg aaagcaggag gggcagccct cctggacaag tgtgatcccc ctataaacgg 900
ctctcaggag gttagtgagt aggagattct gccttgttct gatgagcctg tgcaggggct 960
ccaggggganc atgctgtcca gggggcacag aaggggtggtg agtgtgatca aatctagtct 1020
cactcccact ttttagtctc actcctactt ttgtccacca cccctgcctc ctggatcttc 1080
tcccactttt tttttcagct ttaggacctg gggagatcct gtgagtcaag gcagacaccc 1140
aatcctgccc ccacactcgg ggtcctccaa gaggttgggg ggcagagtcc cagagcagcc 1200
ctttacccca ggtccaggcc ctggaatcct gagactcgcg tttccttggc cagtggtaac 1260
acaggacgtg tgtgcgcatg tgcaagtgtg gatgtatgtg tgtgcgtgtg ttttgctcat 1320
ttcttttagg aacttgggag tcggggttg aggtgctggg caatggaact tcaaattcaa 1380
tgtcgcccag cagtgagggg agtcgggagg tgaggcctgt angcnaacca attggtggag 1440
tctcagcgat acccaggtga gaagtgggtc acccagaggg ncagggtggg ggcctcgggc 1500
agatctgtcc ctcttggccc ctctgtcctc aaatgtccaa aatgttggag gacctctgtt 1560
catatcccac gcctgggctc ttgccagcag tggagtact gttagaggat gtcccaagct 1620
tgttttccaa tcagtgttaa gctgtttgaa actctcctgt gtctgtgttt tgtttgtgcg 1680
tgtgtgtgag agcacatcag tgtgtgcagg ctgtgtttcc ccatttctct cctcccttca 1740
gacccatcat tgagaacaaa tgtaagaaat cccttccac caccctccct gcctcccagg 1800
ccctctgcgg gggaaacaag atcaccagc atccttcccc accccagctg tgtatttata 1860
tagatggaaa tatactttat attttgtatc atcgtgccta tagccgctgc caccgtgtat 1920
aaatcctggt gtmgtctcct tatcctggac atgaatgtat tgtacactga cgcgtcccca 1980
ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2093
```

<210> 599
<211> 562
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 599

gcttactgca gacctgatct tctgggttca agtgatcttc tgacctagcc tctcgtgtac 60
ctgaggccac aggcacacac cgccacacct ggctaatttt tattattttt tttgtagaga 120
cgaggcttca ctatgccacg gttggtctca aactcctgtg ctcaagcaat cctcccatct 180

tggtcccta agtgcaggga ttataggcat gagccaccgt gcccgccctc atgtctgcat 240
gttaaaagtt ctgagaattc ctatggaaaa taaatttgac ttgtcttaat gcagttcctc 300
taaacttact taattccttt ttcttttttt ctttactatt tattaattnt tctcttttct 360
cagaccttgc agggatgaaa ggncccccctt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggtc tctgaangac agcangetga gaaaggcga tcctaacact tanctctttg 480
aagacacttt taaaactggt aacagtattt atagctttta aagnacccat ggttcttaag 540
gcccggttant aaaaaaaaaa nn 562

<210> 600

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 600

```
nngcaagnng ncaccaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgca gtggtgtgat ctgggtcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gtttttgtat ttttagtaga gacggcggtt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgatc 360
caccacacct ggcccttgca atcttctact ttaagggttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
tagtcttcca canaaaatac tttattnctg atctatacaa attttcag 528
```

<210> 601

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (185)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 601
gcctacacgc cgccgcttgt gctgcagcca tgtctctagt gatccctgaa aagttccagc 60
atatttttgcg agtactcaac accaacatcg atgggcgggcg gaaaatagcc ttgccatca 120
ctgccattaa ggggtgtgggc cgaanatatg ctcagtgtgn gttgaggaaa gnanacattg 180
acctnaccaa nagggcggnna gaactcactg angatgangt ggaacgtgtg atcaccatta 240
tgcagaatcn acgccagtac aagatcccgag actggttctt gaacagacag aatgatngta 300
angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaagggtt 360
ctttccacaa cttgtacaca atgttattna ctgccagtt tataatttcc ctnttggttc 420
ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga 475

<210> 602
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<400> 602

```
cacattctca ggaactctcc ttctttgggg agcctcagat gggaagggac tcgagcccca 60
cctgtccctg gactctggaa tgtntggtg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggectc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcagggtgg cctctggctc tgccgtagtt ttgcccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggtgtg cccatggt 288
```

<210> 603

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 603

```
ggcgccccgg agagctcttg cgcgctcttg tcttgccctg tgcggtggt tagtttctgc 60
gacttggtgt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta ccctcttgac ttcaccttg 240
tgtgccccac ggagatcatt gctttcagtg atagggcaga agaatttaag aaactcaact 300
gccaaagtgat tgggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at 432
```

<210> 604

<211> 371

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<400> 604
atttagtggtg .ataaggagaa gaacctgctg catgtcacag acaccggtgt aggaatgacc 60
agagaagagt tggttaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcgggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg anttttctgt naattgctga 300
cccaagaggg aaacactcta ggacggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g 371

<210> 605
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<400> 605

```
ggcacagccg gcatcgtggt gtgttcttga ctccgctgct cgccatgtct tctcacaaga 60
ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
ggattcggat gaaaactggg aaataaaatc aggtacaact caaaaaggag acattggaga 180
agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
tggaagggtc acgatccatg ttaccatatt caagctggaa aatgtgcacc antatctggg 300
agattttcga cgtgtttttc cncctctggan nctgtttatg gnacaagggt gggtttgggtt 360
ggntccatta aattaaatta ggtaaaggcc cc 392
```

<210> 606
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 606

```
gcgtcttcag ggtggaagcc tggcgacagt ccggagagac acccgccatt tcaccagta 60
agcggggccc gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
acgccacggc ccccaccggg ggctccgcgc gcgccgcggg ctacgacctg tacagtgcct 180
atgattacac aataccacct atggagaaag ctgttgtgaa aacggacatt cagatagcgc 240
tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacacttta 300
ttgatgtagg antggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
taattttngg caagaaagtt tgaagtcaaa aaagggtgatc gaattgcaca gtcatttgca 420
acggattttt tatccagaaa ta 442
```

<210> 607
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 607

```
gcaccatggc gggttgcaag aacaagcgcc ttacgaaagg cggcaaaaag ggngccaaga 60
agaaagtggg tgatccattt tttaagaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct 182
```

<210> 608

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (604)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 608

```

nncaaaatta accccctaataaaaattaatt aaccactcac tcatcgacct ccccaaccca 60
tccaacatct ccgcatgatg aaacttcggc tcaactcctg gcgcctgcct gatcctccaa 120
atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgccttttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgct caatattctt tatctgcctc ttcctacaca tcgggcgagg cctatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct tgcaactata 360
gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg agggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtcccacc ctcacacgat tctttacctt tcaactcatc 540
ttgcccttca ttattggcag ncctacagna ctcacctcta ttttttgccg aaacgggggat 600
canncaaccc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncaccttt 660
actacacaat cat 673

```

<210> 609

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

522

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 609
gcggacgcgt ggggttttaaat acaaatgtta tttatagttt acaatgaatg cactgcataa 60
aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
gacagtgtag aagaattcct gagtgaagaag ttggaacgca tataaatctt gcttaaattt 180
tgtcctatcc ttttgttacc ttatcaaag aaatattaca gcacctagaa aataatttag 240
ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
gaaatggcag tatagtcctat gatatctaag gagttggcaa gcttaacaaa acccattttt 360
tataaatgtc catcctnctg catttggtga taccactaac aaaatgcttt gtaacagact 420
tgcggttaaat tatgcaaatg atagtttgng ataattgggg ccaagtttta cgaacaacag 480
atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
ttttnaagga aga 553

<210> 610
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 610
accacgcgt cggctnncc gatgagacca atatatgcaa tggtaagcca gtagatggac 60
tgactacttt ggcgaatggg acattagtgt cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aagggaatt ttcnagaaa aggtngcagc attcagcagt 240

atatttataa acaggaacct gtacagaagt gcccttgga naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacaggta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatgggggtat cnagaccaag 420
gggcctccan aaggagttaa gnggttaccg tggggngg 458

<210> 611

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<400> 611

aagcnganac caaccctcac taaagggaaac aaaagctgga gctccaccgc ggtgcgggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgcacca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attatacctc ttccttgtct caaccgccat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aatagtatac tttaaaaagc ctcagggtat attatcttct aaacagctac 360
aattcagtg agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tcaactgctgt gtagcctcag tgcctaacat gggtgccaaa taaatatng nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggnccctgta 540
tttatgtaat tctttgaaat tatta 565

<210> 612

<211> 442

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

526

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 612
gaccagggtt gctccgtccg tgctccgect cgccatgact tcctacagct atcgccagtc 60
gtcggccacg tcgtccttcg gaggcctggg cggcggetcc gtgcgtattg ggccgggggt 120
cgctttttcgc gcgcccagca ttcacggggg ctccggcggc cgcggcgat ccgtgtcctc 180
cgcccgcctt gtgtcctcgt cctcctcggg gggctacggc ggcggctang gcggcgctct 240
gaccgcgtcc gangggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggtt ctactggana agttcgcncc tgnaggggca aagggaacta aaagttaaata 360
cgcgnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc 442

<210> 613
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (190)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (199)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (213)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (272)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<400> 613
 ggcanaggag aactccagga ttgtcctgca gatcgacaac gcccgtttgg ctgcagatga 60
 cttccgaacc aagtttgaga cggaacaggc tctgcgcatg ancgtggagg ccgacatcaa 120
 cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
 tctgangcctn angaagagnt ggcctaccta agnaggaccc tgagggggaa tcaattncgt 240
 taagggggcca atgggaggcc attaatTTTg anttggttcc ttccggacct tttggccant 300
 cntggt 306

<210> 614
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 614
ggcgactaca gccactacta cacgaccatc caggacctgc gggacaagat tcttggtgcc 60
accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca ggggtgctgga tgagctgacc ctggccagga ccgacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttagggggc aagtgggagg ccaggtcagt gtggaggtgg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc cnatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaacccgga ggtcgcttgc 480
cacacggagc aacttcngat gagcaggtcc aaggttactg acctgcggcg caacccttaa 540
ggncttgaga atgaa 555

<210> 615
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 615

```
tganagaaat taaccctcac taaaggggnac aaaagctgga gctccaccgc ggtgcnccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgaggcc ctcaacttcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcatctctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccggtg 300
taaagtgtga gccttttttg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggcccgtg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgccccctc cactgctgct gctccagctg aggagaagaa agtggaagca 480
aagaaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt 575
```

<210> 616

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<400> 616

```
ctcgtgccga attcggcacg agccgccgcc tccgccgcag acgccgccgc gatgcgctac 60
gtcgcctcct acctgctggc tgccctaggg ggcaactcct cccccagcgc caagggnatc 120
aagaagatct tggacaacnt ggggtatcgag gcggacgacg accggctcaa caaggttatc 180
agtgaactga atggaaaaaa cattgaagac gtcattgccc aggggtattg caagcttgcc 240
agtgtacctg ctgggtggggc tgtagccgtc tctgctgccc caggctctgc agccccctgct 300
gctgggttctg cccctgctgc agcagaggag aagaaagatg agaaga 346
```


530

<210> 617
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 617
gggcagggt gagccagcga cgccctccat tcaactctccg cgcccggttct ccggctgtcc 60
tcccggttccg ctgcccggcc tgccaccatg acggaacagg ccatctcctt cgccaaagac 120
ttcttgggccg gaggcacgc cgccgccatc tccaagacgg ccgtgggtcc gatcgagcgg 180
gtcaagctgc tgetgcaggt ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
aagggcacgc tggactgcat tgtccgcac cccaaggagc agggcggtgt gtccttctgg 300
aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttegncttc 360
aaggataagt acaagcagan cttcctgngg ggcgtgnaca agcacacnc 409

<210> 618
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 618

```
ggcanagcnc aaagacaggc ttttnagatt ggatctccgt ggcgtactat ggatgcttcc 60
gagagggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgaccctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttggga caatgctggt gaatttgcac accatggggg attctaccac cagggccagt 240
ntgtatatag cgcatncagg atttttgtgg aagaatcaat ttatgatgag tttgttcgaa 300
ggagtgttga gcgggttaag antatatcct tgggaantcc ttgacccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaataactt gaccccatg agagtnggaa 420
gaaagaaggg gccaanaggga tntggnggag gccctggggg ataaagggtan ttg      473
```

<210> 619

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 619

cgacnttccc ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgag gtggtcccc tggcagggac 120
aaatggcgag actaccaccc aagggttgga tgggctgtct gagcgctgtg cccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacacccc 240
ctcagccctc gccatcatgg aaaatgcaa tgttctggcc cgttatgcca gtatctgcca 300
gcagaatggc attgtgcccc tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggtt gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatgggtcc cccaggccat 480

534

gcttgcactc anaagttttn ttatgaagga gattgcccac ggccaacccg tctcaanccg 540
tgtgcccgc caantgcccc ccgcttgtc acttgggatc aacnttncct gtnttggaag 600
gcca 604

<210> 620

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 620

gngccaacag ccttgccctgt caaggaaagt acactccgag nggtcaggct ggggctgctg 60
ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggaggtgttc ccaggctgcc 120
ccaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgcccgcgc tctttcttcc ctcgtgacag tgggtgtgtg tgctgtctgt 240
gaatgctaag tccatcaccc tttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn 312

535

<210> 621
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 621
gatgattgtg aattcaaggc tgaaggaaat agcaaattca cctacacagt tctggaggat 60
ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtggtcc tgatcaagaa 180
tttgggtgtg acntnggncc tgtttgnitt ttataaacca aactctatct gaaatcccaa 240
caaaaanaa 248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<400> 622
aatncggcac gaggcaccnc ctgcgcaccc ncaatcagtc cagcgatgag ctgcagctga 60
gtatgggaaa tgccatgttt gtcaaagagc aactcagtct gctggacagg ttcacggagg 120
atgccaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg agggactata acctgaacga 240
catacttctc cagctgaagt acacaggcaa tgcacgcgna ctnttcatcc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatgtt ggttttcaga gncc 344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 623
gctcaaaggg agaccgggt ttccagggag caaaggcgag gctggatttt tcggaatacc 60
cggtctgaag ggtctggctg gtgagccagg ttttaaaggc agccgagggg accctgggcc 120
cccaggacca cctcctgtca tccctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atggggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
catcccangg ctgtcaggaa tccctgggct gcctgggagg cccggncaca tcanagggaat 300
caaggganac atngga 316

<210> 624
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (327)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (331)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (381)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (383)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (426)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (429)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (438)
 <223> n equals a,t,g, or c

<400> 624
 ggcaagagggtg aggaggtgtg gtaccgtgtg ctacagatcg tcaccaaccg tgaatgacgt 60
 ccagggttat gcgccaagac cgtctttaag gcgctccagg cccctgcctt gnacgaagaa 120
 catggtgaag gttggcggtt acatccttgg ggagtttggg aaacctgaat tntggggacc 180
 cccgntncca gccccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
 ngtggccagg ggncgctgct gctgtgccac ctgacatcaa gttcatcaac ctctttcccc 300
 gagaccaagg ncaccatcca gggggtnctg nggggtcggg tttccagttg cgcaatgttg 360
 acgtggagtt gcagcaggag ncntggagta acttcacott cagttcatgg gtcagcaaca 420
 agttcnggnc aggtgttnga ggagt 445

<210> 625
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<400> 625
tcgacccacg cgtccgggcg ggtccgccgn gantaagacc cgctgcccgg cacctctagg 60
gtgtgatctg accggtcgcg ggggaccagc ccagccctat ttcggctcga gcgaggaact 120
tctgtccccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
acagcccagc gccaggaaat caggacggcc ttacaagagc accattcggc aggggacctt 360
gtgttaagga acggaccccn ttttgttttnn gantggngtg a 401

<210> 626
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<400> 626

cggtaccggt ccctggtgta ccagctgaac tttgatcaga ccctgaggaa tgtanataag 60
gctggcacct gggccccccc gggagctggt gctggtggtc cangtgcata accggccccga 120
atacctcana ctgctgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcattcttag ccattgacttc tggctgaccg agatcaatca gctgatcgcc ggggtgaatn 240
tctgtccggt tctgcangtg ttctttcctt tcagcattca gttgttcctt aacgantttc 300
cangttantg accta 315

<210> 627

542

<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 627
gaaaaagatg agtatgcctg ccgtgtgaac catgtgactt tgtcacagcc caagatagtt 60
aagtgggatc gagacatgta agcagcatca tggaggtttg aagatgccgc atttggattg 120
gatgaattcc aaattctgct tgcttgcttt ttaattattga tatgcttata cacttacact 180
ttatgcacaa aatgtagggg tataataatg ntaacatgga catgatcttc tttataattc 240
tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
agcagggctg gcaacttann aggtggngag cagagaattc tcttatccaa catcaacatc 360
ttggtcagat ttgaactctt caatctcttg cactcaaagc ttgataagga aa 412

<210> 628
<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<400> 628
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggcg cggccgctct anaggatcca 60
agcttacgta cgcgtgcatg cgacgtcata gctcttctat agtgtcacct aaattcaatt 120
cactggccgt cgttttaciaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgacgc acatccccct ttcgccagct ggcgtaatac cgaagaggcc cgcaccgatc 240
gcccttccca acagttgcgc agcctgaatg gcaaattggga cgcgccctgt agcggcgcat 300
taagcgcggc ggggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcggccctac 360
gcccggtcct ttcgtttctt cccttccttt ctgccacgt tcgccggnnt tccccgtnaa 420
gctntaaatn gggggctncc tttanggttc cgattaangn tttacgggac cttngaccca 480
aaaacttgat taggggtgat gttacntaat gggccatngc ctgataaacg gttttgccct 540
ttgannttgg agtcccgttn ttaaaaggga ctttggt 577

<210> 629
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (632)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (651)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<400> 629
gactagttct agatcgcgag cggccgctct agaggatcca agcttacgta cgcgtgcatg 60
cgacgtcata gctcttctat agtgtcacct aaattcaatt cactggccgt cgttttacaa 120
cgtcgtgact gggaaaaccc tggcgntacc caacttaatc gccttgacgc acatccccct 180
ttcgccagct ggcagtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgcgg cgggtgtggt 300
ggttacgcgc agcgtgaccg ctacacttgc cagcgcccta gcgncgcgtc ctttcgcttt 360
cttcccttcc tttctcgcca cgttcgcggg ntttccccgt caagctctaa atcnggggct 420
ccctttangg ttccgatnta gtgctgtacg gcacctngac cccaaaaaac ttgattaggg 480
tgatggttca cgtngtggnc atcgccctga tagacggntt ttcgcccttt gacgttgagg 540
nccacgttct taatagtggg ctctttggtc caaacnggan caacantgaa cccctatctc 600
ggncatttct tttgatttat nagggatttt gncgatttca ggncatttgg ntaaaaaatg 660
gatcttgntt ttaacccaaa atttaaacgg cggaatttta agc 703

<210> 630
<211> 638
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (629)
<223> n equals a,t,g, or c

<400> 630
gaaaaaaaaa aaantaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gggcggccgn tntanaggat ccaagcttac gtacgcgtgc atgcnacgtc atagctcttn 120
tatagggtca cctaaattca attcactggc cgcgcgttta caacgtcgtg actgggaaaa 180
ccctggcggt acccaactta atcgccctgc agnacatccc cntttcgcca gctggcgtaa 240
tagcnaaaag gcccgnaccg atcgcccttc ccaacagttg cgcagcctga atggcaaagt 300
ggacncccc tgtancggng cattaancnc ggcgggtgtg gnggttacct ncancgngac 360
cgctacactt gccagngccc tagcgccgc tcctttcgct ttcttccctt cctttntcgc 420
cacgttcgcc ggctttcccc gtcaagctnt aaatcggggg ctcccttttag ggttccgatt 480
aagngcttta cgggaccttn gncccaaaaa aaacttgatt aggggngatg gntcacngta 540
aaggggccat tgcccttgat aaaacggttn tttngccctt ttgaccttg aantccccgt 600
ttctttaaaa aangggacct tttggttcna actgggaa 638

<210> 631
<211> 187
<212> DNA
<213> Homo sapiens

<400> 631
ctaagttcta gatcgcgagc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 60
gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtc gttttacaac 120
gtcgtgactg ggaaaaccct ggcgttacct aacttaatcg ccttgcagca catccccctt 180
tcgccag 187

<210> 632
<211> 305
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<400> 632
cnagaagtca agcggggccgt ngncgatagc tggtagcct gcagggtaccg gtccggaatt 60
cccggggtcga cccacgcgtc cgactagtgc tagatcgga ggcggccgctc tagaggatcc 120
aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgtcacc taaattcaat 180
tcaactggccg tcgtttttaca acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat 240
cgcccttgca ccatccccc ttctgccagc tggcgtaata gcgaagaggc ccgcaccgat 300
cgccc 305

<210> 633
<211> 187
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

552

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 633
ncttccttan gctcnatata ccttggttg taccacccct cactataggg aaagctggta 60
cgccctgcagg taccggtccg gaattcccg gtcgaccac gcgtccgaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtacnctn 180
natgcaa 187

<210> 634
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 634
aataaggnga ngagngttaa gancggatac gactcactat agggaaagct ggtacgcctg 60
caggtagcgg tccggaattc ccgggtngac ccacgcgtcc gtggaaatct gtcctccana 120
atccaggcca naaagttcac agtcaaattg ggaggggtat tcttnatgca ggagacccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240

ttt

243

<210> 635

<211> 180

<212> DNA

<213> Homo sapiens

<400> 635

cccacgcgtc cggaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 60
gagggggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 120
cttctatagt gtcacctaaa ttcaattcac tggccgtcgt ttacaacgt cgtgactggg 180

<210> 636

<211> 747

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<400> 636

```
atnnanagac ctccatttgg attacgctgg tacgcctgca ggtaccggtc cggaattccc 60
gggtcgacccc acgcgtccgc tagttctaga tcgcgagcgg ccgctctaga ggatccaagc 120
ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 240
ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggccgc accgatcgcc 300
cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgcatata 360
gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc 420
ccgctccttt cgctttcttc ccttcctttc tcgccacgtt cgccggcttt ccccgtaag 480
ctctaaatcg ggggctncct ttagggntcc gatttaagtg ctttacggac ctcgacccca 540
aaaaacttga ttagggtgat gggtcacgta gtgggccatc gcctgataga cggttttcgc 600
ctttgacgtt ggagtcacgt cttaataggg actcttgtnc aaactggaac aacactnaac 660
ctatttggct atcttttgat tataaggatt tgccgattcg gcattggtaa aaatgagtgt 720
tacaaaatta cgcgattaca aaaatan 747
```

<210> 637

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<400> 637
gtagttctag atcgcgggcg gccgctctag aggatccaag cttacgtacg cgtgcatgcg 60
acgtcatagc tcttctatag tgtcacctaa attcaattca ctggcogtcg ttttacaacg 120
tcgtgactgg gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt 180
cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag 240
cctgaatggc gaatgggacg cgccctgtag cggcgcatta agcgcgggcg gtgtgggtgg 300
tacgcgcagc gtgaccgcta cacttgccaa gcgccctaag cgcccggttc tttcgctttc 360
ttcctttctt ttttngccac gttcgccgg cttttccccg taaagcttta aatcnggggg 420
gttcccttaa ggggttcga ttaannggtt ttacgggaac ttngaccca aaaaaacttg 480
attagggggg aaggtn 497

<210> 638
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 638
ggactagttc tagatcgcca gcggccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgcccttgag cacatccccc 180
tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgagg cgggtgtggt 300
ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgcccgntc ctttcgcttt 360
cttccttctt tctcggcacg gtcgnccggc tttncccgnc aagctntaaa tcgggggggt 420
tccntttagg ggttccgaat taagggttt accgggaacc ntngaacccc caaaaaactt 480
tgaattaggg tngaangggc tcacggtaa 509

<210> 639
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<400> 639
gnctagttct agatcgcgag cggcccgcctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcaactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgca gacatcccc 180
tttcgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acncgccctg tagcggcgca ttaagcgcg ggggtgtngt 300
ggttacgcgc agcgtgaccg ctacacttgc agncacctag cgcccgcctc tttcnnttn 360
ttnccttcct ttntngcacg tttnacggct ttcccgtcaa gctctanac gggggctcct 420
ttaggggtcn atttaatggt tacggacct tanccaaaaa acttgatatg gttatgggta 480
ntgtnttgng ccattgcctt atttccc 507

<210> 640
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g,, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<400> 640

aattcgcan agacaaaaat gcagatttnc gtnaaanccc ttacggggga agaccatcac 60
cctcaagggtt aaaccctcgg aatacgatag gaaaatgtaa aggccaagat ccaggataag 120
gaagggnattc ctctgaatn cagcagagaa ctgaatcttt gcctgggncaa gcagctggga 180

aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttactttctn 240
atcttgtgtt gagaatttcg tgggtggtgc ttaggaaagg ggaaggagga agtttttaca 300
accattccca ggaaggnnta ggcccagggn aaagganggt ttaagntggt tgtncncgaa 360
atTTTTtagg gnggggtgng attgggcaan tnngtnggct ttggttgggg ggttcccctt 420
tttaanngan ttnggggntt nggggngttt tttttggggn ggnaaatttt tttaaggnc 480
tttttttggg ggaaaa 496

<210> 641

<211> 186

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<400> 641

ggcaaacatg cagatctttg tgaagaccct cactggcaaa accatcaccc ttgaggtcga 60
gcccgatgac accattgaga atgtcaaagc caaaattcaa gacaaggagg gnatcccacc 120
tgaccagcag cgctgatata ttgccggnaa acagctggaa ggatggncgc aactctntca 180
gactac 186

<210> 642

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<400> 642

```
ggcacgaggc cctctgaaga ggaggccccc aggtctccac tggcaccctc cgaagggctg 60
gctccgatgt atttgatggt gacctgggaa tggggcagcc aagggctgca aagcctcccc 120
acacatgacc ccagccctct acagcggtaa ggtgagggac ccacattncc cctgccctct 180
gagacttngg gggacgttgc ccccctgana tgcagnnnng gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttggtgccac tctggnaagn ggccaagaat ctnttcccc gaagaagaatt gggtcgtcaa 360
aagnggtttt tgcnttttgg gggttccgtt gagaancccc agtangttta caaccccaag 420
ggaagaanct tcccctnaag cccaacactt ctcccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cgggggggtc 519
```

<210> 643

<211> 138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

567

<400> 643

agttccttgc ngcaggcaac ccacttaggt ggccancaat cttgacttcc agatggaaga 60
gtgacatcta tnanaggaaa agtgateggca tntatatcat anntctcaag aggacctggg 120
agaagcttct gctgggca 138

<210> 644

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<400> 644

gcccacgcgt ccggcgagct gagtggttgt gtggtcgcgt ctcggaaacc ggtagcgctt 60
gcagcatggc tgaccaactg actgaagagc agattgcaga attcaaagaa gctttttcac 120
tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
gctatattag tgctgcagaa cttcgccatg tgatgacaaa ccttggaaga gaagttaaca 420
gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
ctatgaagag tttgtaccaa atgatgacag caaaagtgaag agaccttttn ccagaatggg 540
gttaaatttc ttgnaccaaa antgggtaat ttggcctttt ctttggttgg naacttatct 600
gn 602

<210> 645

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<400> 645

atntgttggg ccggaactgg gctngtttca ccggaagaa ngtggganct gcctctgana 60
atgtgtatgt ccacatacca caccttagga attctcacga aaagtnttcc aa 112

<210> 646

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (391)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (463)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (466)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<400> 646
 cagcgggcca ctctggatcc tgggcgacgt cttcatcggc cgctactaca ctgtgtttga 60
 ccgtgacaac aacaggggtgg gcttcgcca ggctgcccgc ctctagtcc caaggcgtcc 120
 gcgcgccagc acagaaacag aggagagtcc cagagcagga ggcccctggc ccagcgggcc 180
 ctcccacaca caccacaca ctgcgccgcc cactgtcctg ggcgccctgg aagccggcgg 240
 gccaaagccga cttgctgttt tgttctgtgg tttcccctcc ctgggttcaa aaatgctgcc 300
 tgctgtctgt ctctccatct tgtttggtgg gttaaactga tccaaaanaa aatttgttcc 360
 gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
 atcccccccg gcctacaagc cgtnggttaa cctacccaac agngcncccg gncncttgaa 480
 ctgcngctaa gcccttccaa ttggccattg gttc 514

<210> 647
 <211> 525
 <212> DNA
 <213> Homo sapiens

570

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<400> 647
ccctactaat ntgngcaaaa gcnengagct ccaccgcggt ggcggccgct ctagaactag 60
tggatccccc ggnttgacagg aattcggcac gagcacgcag cggcccgtgg acatcgtctt 120
cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
cgtggcgctg ctgcagtttg gtggccccgg cgagcagcag gtggccttcc cgctgagcca 300
caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact ccttctcgca 360
cgtgggcgca ggcgtggtgc acgccatcaa tgccatcgtg cgcagcccgc gtggcggggc 420
ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgcacagn 480
ctgacgagtc ggcgcactcc atgcgcaagc agaacngnga cccac 525

<210> 648
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 648
gcncagatgg gcatgctgaa ggggcctctt cttaacaaat ttctgaccac agccaaagat 60
aagaaccgct gggaggacnc tggtaagcag ctctacaacg tggaggccac atcctatncc 120
ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
aatgnacaga gatnctacgg tgggtggntat ggctctaccc aggccacctt catggtgttc 240
caagncttag ctcaatanca gaaggacggc cctgaccacc aggcactgaa ccttgangtg 300
nacctccaaa tgctcng 317

<210> 649
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<400> 649

```
gtaggaacac cctcatcatc tacctggaca aggtctcaca ctctgaggat gactgtctag 60
ctttcaaagt tcaccaatac tttaatgtag agcttatcca gcctggagca gtcaaggtct 120
acgcctatta caacctggag gaaagctgta cccggttcta ccatccgaa aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caagggtcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgaggt gcaggttgga 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg 575
```

<210> 650

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<400> 650

```
tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttctgg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcctggacgt actgcacggc 240
aanctgaagc acaggntact aacgngntna acccanc 277
```

<210> 651

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccnggggtgga gctggctgag tcgcgcgctc tgctccaccc ggggggggctg 60
ttttttctgg gcctggctcg cggcgnacng agatggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctggntctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctggtgggg 240
gaggaagttt taaggggaac aagcttgag gtgacgtac ttgaggaant tttgaggnt 300
gttcggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca 357

576

<210> 652
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
ggacgctact tcccctatca tagaagagct tatcaccttt catgatcacg ccctcataat 60
cattttcctt atctgcttcc tagtcctgta tgcccttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tnctgcccgn 180
catcatccta 190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

577

<400> 653

```
gcttcgaccc cgccggagga ggagacccca ttctatacca acacctattc tgatttttcg 60
gtcaccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaiaaaaaa gaaccatttg gatacatagg tatggtctga gctatgatat 180
caattggctt cctaggggtt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgta 300
aagtatttag ctgactcgcc aactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc tttcttttca ccgtaggtgg cctgactggc attgnattag 420
caaactcadc actagacadc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaacc tacgccaaaa atcatttcac tatcataatn 600
cac 603
```

<210> 654

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 654

```
ggtttttttc ttgcgaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc ccccaacagg catcaccgag ctaaattccc tagaagtccc 120
```


actcctaaac acatccgtat tactcgcac aggagtatca atcacctgag ctcaccatag 180
tctaatagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttcgg 300
anggcaccta cggctcaaca ttttttgnag cccaggcttn cacgganttt cacgtc 356

<210> 655

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 655

gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat ttcccttacc tgcttcctag tcctgtatgc ctttttccta 120
acactcacia caaaactaac taatactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt 240
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtacac cgactacggc ggactaatct tcaactccta catacttccc 360
ccattattcc tagaaccagg cgacctgcga ctccctgacg ttgacaatcg agtagtactc 420
ccgattgaag cccccattcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attcccggac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggg caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccacggcct agaattaatt cccctaaaaa tctttgaaat aaggggcccg 660
atttacccta tagcaccct ct 682

<210> 656

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 656

```
gagaagagct tatcaccttt catgatcacg ccctcataat catttttcctt atctgcttcc 60
tagtcctgta tgcccttttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcctgcccgc catcatccta gtcctcatcg 180
ccctcccatc cctacgcac ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaatcaat tggcaccaat ggtactgaac ctacgagtac accgactacg gcggactaat 300
cttcaactcc tacatacttc ccccattatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgattga agccccattc gtataataat tacatcacia 420
gacgcttgna ctcaagagct gnccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg 520
```

<210> 657

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 657

```
gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 120
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcanaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatggtggt gaatgaaacc tcaaattatn cccgttggtg tta 353
```

<210> 658

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 658
ggcanaggcc accaccatcc tgcattgccc actttacttg gccttctcct ggctctaact 60
caggcagcca agaccctctc cacttccttc tttggcctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgcccag gcgtttgaag gctgacatca acggcttgcg ccgagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggn 240

agctagcctt acctgaagtg gnaccacgaa ggagggagat ggaaggagtt tcagcagcca 300
gttgcccggn caagttcaat nttggagatg ggncggancca ccgggtgtgg gacctgaccc 360
gn 362

<210> 659

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<400> 659
gcttctnecg tccttctagg atctccgcct ggntcggccc gcctgcntcc actcctgcct 60
ctaccatgtc catcaaggtg acccagaagt cctacaaggn gtccacctct agcccccggg 120

ccttcagcag cgcctcctac acgaatnggc ccggttcccg catcaacncc tcgancttct 180
cccgaatagg cagcagcaac tntngcagtg gcctgggcgg cggctatngt ggggccagcn 240
gcatggnagg catcaccgca gttacggtca accagagcct gctgancccc cttntcctgg 300
agggtggacce caacatccag gccgtgcgca cccaggagaa ggagcagatc aanaccctca 360
acaacaagtt tgcctcttca tagacaaggt aggttcctgg agcagcagaa caagatgttg 420
gaaaccaagt agagctcctt gagcnnn 447

<210> 660

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<400> 660

```
ggnacgagcn aaggcctgca ccattctcct ccgggggggct agcaaagaaa ttctntcgga 60
agtagaacgn gancctccag gntgcnatgc aagntgtcg caatgttctc ctgggaccct 120
nagctggtgc nagggggtgg ggcntccaaa atggctgtgg cccatgcntt ganagaaaaa 180
tccanggccca tggactggtg tgggaacaat ggccatacag ggctgttgnc cagggcccta 240
naggttcatt cctcgtnacc ctggatccan aaactgtggg gggncagcca ccatt      295
```

<210> 661

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<400> 661

```
gttggcgtgc tgggcctgga cctctggcag gtcaagtctg gcaccatctt tgacaacttc 60
ctcatcacca acgatgaggc atacgctgag gagtttggca acgagacgtg gggcgtaaca 120
aaggcagcag agaaacaaat gaaggacaaa caggacgagg agcagagggt taaggaggag 180
gaagaagaca agaaacgcaa agaggangan ga      212
```

<210> 662

<211> 130

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 662

```
aaaatacatt ganatacatn atgaaggcca ctatnatacct ccttctgntt gcacaacttt 60
cctgggctgg accntttcat cagacaggct tattagactc tatgctagaa catgaagctt 120
atnggatcng                                     130
```

<210> 663

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 663
gnctcatnnn gactgttctg ncccgattgt tgctgctggt gttggtgaat ttgaagctgg 60
tatctccaag aatgggcaga cccgagagca tgcccttctg gcttacacac tgggtgtgaa 120
acaactaatt gtcggtgnaa acaaaatgga ttccactgag ccaccctaca gccagaagag 180
atatgaggaa attgntaagg aagtnagcac ttacnttaa gaaaaaactg gg 232

<210> 664
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 664
agcggagacc cgcaagcgca agggnctgaa agaaggcatc cctgccctgg acaacttcct 60
ggacaaattg taggtggccc ctgcagcgcc tgccgccccg gggactcgca gcacccacag 120
caccacgtcc cgaattctca gacgacacct ggagactgtc cgcacactcc cctgagaggt 180
ttctggggcc cgctgcggtc acgagggggg gcccggttac ccaattcgtc ctatagtgat 240
natttacaat tcactggncg tcgtttttaca agtcgtgtnt gagttttttt tntntt 296

<210> 665
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 665

```
gggtcgaccc acgcgctccgg tttgccgccca gaacacaggt gtcgtgaaaa ctaccacctaa 60
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 120
cgggcaagtc caccactact ggccatctga tctataaatg cggtggcata gacaaaagaa 180
ccattgaaaa atttgagaag gaggctgctg agatgggaaa gggctccttc aagtatgcct 240
gggtcttgga taaactgaaa gctgagcgtg aacgtggtat cncattgga tatctccttg 300
tggaatttg agaccagcaa gtactatgtg actnnncatt gnatgcccc aggacacaga 360
gactttatcc agaaac                                     376
```

<210> 666

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<400> 666
gccggatcct ncaatcttcg ctccctccaat ctccgctcct ccacccagtt caggaaccgc 60
cgaccgctcg cagcgctctc ttgaccacta tgagcctcct gtccagccgc gcggcccggtg 120
tccccgggtcc ttcgagctcc ttgtgcgcgc tgttggtgct gctgctgctg ctgacgcagc 180
cagggcccat cgccagcgct ggtcctgccg ntgctgtggt ganagagctg cgttgccggt 240
tgttttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggccca acagtgtctc aangngggaa gn 332

<210> 667
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<400> 667

```
gtccttcgtg gagctaccgc tggccagcat tgtctcactt catgcctcca gcngcggtagg 60
taggctgcag acctcaccgc naccgatcca gancactcct cccaaggaca cttgtagccc 120
gganctgntc atgtccttgn atccanacaa attgtgccga cgacgccatg gaccctggta 180
ctaaaganag agcttggtgc gcatttggaa ttgcaccatg cacgggcctg accttctggg 240
nacccccagct gtgtaggcag aggacagggg gacaattttg tctttgcgca tggcntaatg 300
ccatctgtgg tcatgacagg ttgttcatca agtnnggant caggcaatga aggcngtgagg 360
t
```

361

<210> 668
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<400> 668
ggcacgagct cctcccagcg cttctacaag gagaacctgg gacagggctg gatgacccag 60
aagcatgagc ggatgaaggt ctatgtgccc actggcttct ctgccttccc ttttgagcta 120
ttgcacacgc ctgaaaagtg ggtgagggtc aagtacccaa agctcatctc ctattcctac 180
atggttcgtg ggggccactt tgcggccttt gaggagccgg agctgctcgc ccaggacatc 240
cgcaagttcc tgtcgggtgct ggagcggcat gnancacccc ctctccccc gcttgccact 300
tccccccaca atgccctcca ggntttcttg ggggaagata accntttctg aggatgantt 360
tgctccgctc cntgnccag ttggganccc agttcaaccc ctnaaccttc nagttaattc 420
ccaaccccaa tcgtgtggta agcaangggg ttgangataa agatttaatc taaaaaaaaa 480
aaaaaaaaatc nggggggggc ccgtaacaat tgnccnaa 518

<210> 669
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (337)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 669
 gcaagatnga nantaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgncg 60
 gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gatagaggag 120
 gcttccctcc aagaggacc cgggggtccc gagggaaacc ctctggagga ggaaacgtcc 180
 agcaccgagc tggagactgg cagtgtccca atccttcaat tgggtgattc tgctgtgatg 240
 taattgtatg caggggttgt ggaaaccaga acttcgcctg gagaacagag tgcaaccagt 300
 gtggtgatcg tggcagaggt ggccctgggt gcatgcnggg aggaagaggt ggcctcatgg 360
 atcgtgggtg tcccggtgga atgttcagag gtggccgtgg tggagacaga ggtggcttcc 420
 gtggtggcgg gggcatggac cgaggtggct ttngtggagg aagacgaggt ggccctgggg 480
 ggccctgga cctttgatgg aacagatggg aggaagaaga ggaggacgtg gaggacctgg 540
 gaaaa 545

<210> 670
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (141)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (173)
 <223> n equals a,t,g, or c

595

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<400> 670
ggcggaactcg gtggctagcc gatgaggagg ccgcgggggg aaccggcccc cgggccccga 60
gaccgactga gggagcgacc tgcgcagggc ccggggagtc atgtaagggt ggcacccctg 120
gctacagtca acatcttgat ntcactgtgc caactgcggt gcctgccctt canagccctg 180
cactttgttt tntcccttg cttcatcnac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcgct acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
gggtccccgcc ttccccgaan gcagtaagtg cccatctttc cccaacctct cntcaccgac 360
cgtgcccgcgt gcaagtacng tcacaa 386

<210> 671
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 671
tggagacaga gcgagggttt gaggagttgc ccctgtgcag ctgccgcatg gaggcaccca 60

agattgacag catcagcgag agggcggggc acaagtgcac ggccactgag agtgtggacg 120
gagagctgtc aggctgcaat gccgccatcc tcaagcggga gaccatgagg ccatccagcc 180
gtgtggccct gatggtgctc tgtgagaccc accgcgcccg catggtcaaa caccactgct 240
gcccgggctg cggctacttc tgcacggcgg gcaccttcct ggagtggcac cctgacttcc 300
gtgtggccca ccgcttcac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
cccactgtgg ggaggatact tctgaagctc aagangtgac catccccggg gtgacggggt 420
gacccaacgg ccggca 436

<210> 672

<211> 504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature

601

<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 672
aattcggcac gagagcatat cnggtgcatc tnnгаааgac atcgtgcact ctggntnggc 60
atacacantg gagcnnctg ccaggcaant tatgcgcaca gccatgaagn ataacctggg 120
tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
tgaagctggt gtgaccttca catngatgga ncatggctga cttncncact atcctcttca 240
catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
ggngnaaagg antcaagggt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
ctnctgnan cagtgggncc atttttgggt attttnnctn tnaantanag agggctantt 480
tnatcttgtt gttgcagnct ttnc 504

<210> 673
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc featur

<222> (103)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (113)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (114)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (412)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (422)
 <223> n equals a,t,g, or c

<400> 673
 aatacccaca ccnaacggga caaaaacctg gaanaccacc gaggtggcgg ccgcncatag 60
 aactagtggga accccagagg ctgcaggaat tcgggcacga ggnagagcgg acnngtgagc 120
 agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggcctagctt taccgcgccg 180
 cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
 aaggcatcaa gcagggttac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
 tctggatcga tggtagtgga gaaggactgc gctgcaagac ccggaccctg gacagtgagc 360
 ccaagtgtgt ggaagagttg cctgagtggga atttcgatgg ctctagtact tnacagtctg 420
 anggttcag t 431

<210> 674
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (22)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<400> 674

```
cgggcgggaa agtcaagata cnngctttnc tancttggtg gagagagtta tccaacaatt 60
ggaaggtgct tttgcacttg ngtttaaaag tgttcatttt cccgggcaag cagntggcac 120
aaggcgaggt agccctctgt tgattggtgt acggagtga cataaacttt ctactgatca 180
cattcctata ctctacagaa caggcaaaga caagaaagga agctgcaatc tctctcgngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
tgatgcaann gctgcataga acacaccaat cgcgtcatct ttctggaaga tgatgatgtn 360
gcagcaagna                                     370
```

<210> 675

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (212)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (316)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (318)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (325)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<400> 675
 ggcanagaga agagagagag agagagagag agactcgtaa ttcggcagnn cccccangta 60
 cagtncccttc aagcctacaa gccccgagag aatgatgant tggcactgga gaaagccgac 120
 gtggtgatgg tgactcacca gagcagtga cggctggctg gagggcgtga ggctctcaga 180
 cggggagcga ggctgggttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
 gtgacacaga acctgaaggg aagcttcacg gagtgaaga cttgccaaac tacagctngt 300
 gggaacagca agcctnantt ttctnctgna gaaggagttt tcgtgagctg gaagaacaag 360
 ttg 363

<210> 676
 <211> 441
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<400> 676

```
ccgaggacca gcgcaacgag gagaaggcgc acgtgaggcc aacaaaaaga tcgagaagca 60
gctgcagaag gacaagcagg tctaccgggc cagcgaccgc ctgctgctgc tgggtgctgg 120
agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgcg gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcca tgagcaacct ggtgcccccc gtggagctgg ccaaccccca 300
aaaccagttc agagtggact acatcctgag tgtgatgaac gtgcctgact ttnacttccc 360
tcccgaattc tatgagcatg ccaaggctct gtgggangat gaangagtgc gtnccctgcta 420
cgaacgctcc aacgaatacn n 441
```

<210> 677

<211> 550

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (217)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (429)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (487)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (523)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<400> 677
 gcgactcgca gcgccaggcc accaaggatg cgggtgtgat cgcggggctc aacgtgctgc 60
 ggatcatcaa cgagcccacg gccgccgcca tcgcctacgg cctggacaga acgggcaagg 120
 gggagcgcaa cgtgctcatc ttgacctgg gcgggggcac cttcgacgtg tccatcctga 180
 cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacaccac ctgggtgggg 240
 aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
 aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
 gaggaccctg tcgtccagca ccaggccag cctggagatc gacttccttg ttttgagggc 420
 atcgacttnt acacgttcat caccagggcg aaggttcgaa ggagctgtgc ttccgacctt 480
 gntnccnaaa cacccttggg aacccttggg gaaaaaaggc ttnttgcgcc gaaaggccca 540
 ancttgggac 550

<210> 678
 <211> 435
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<400> 678
tgcaggaaga gctcgtggaa gaggtggtgg ccccgagtcaa aactggnaac cagggnatata 60
gtaactattg gaatcaaggc tatggcaact atggatataa cagccaaggt tacgggtggtt 120
atggaggata tggntacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
tgaaggttcc tttgaggggg gctccgccc n ggncttaatt ggcnttccaa ctaaattttt 360
gggtatccag tcccnatgg gagtntgcgg tggggccccc nggagtttaa ttcgggggtcc 420
ccntaaagga tttnn 435

<210> 679
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<400> 679
cggacgcgtg ggctctggcc cctggctcctg tctgtttctc caacatgggtg tgtctgaagt 60
tccctggaag ctctgcatg gcagctctga cagtgcact gatgggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcgggttc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtgggggaat accggggcgt gacgganctg gggcggccta 300
actccgaata ctggaacagc cagaaagacn ccngggacag aagcgggccg cggtgggacac 360
ctactgcaga nacactacgg gggtgggtgn 390

<210> 680
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<400> 680

```
anngtcanac ngacagtnac cgtccggatt cccgggtcga cccacgcgtc cgtgaggtta 60
cagattatgc cattgccagg cgcatagtag atttgcattc aagaattgag gaatcaattg 120
nnaatatcta tnccctcgat gatatcagaa gatatctncn ctatgcaaga aagtntaaac 180
ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgccccn 240
aagatgggtt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
gccttgatc cgtctctctt ggaagccaat ngctccgggt gcc 343
```

<210> 681

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<400> 681
natcttccgt gacactnttg anggnacgcc cgcaggtacc cgtccggaa ttcccgggtc 60

```
gacccacgcg tncgccaat tttaccaatc tatcaccccta tagaagagct aatgttagta 120
taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatata tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaagggt aaaaaaagta aaagggaactc ggcaaactct 300
accccgccctg tttacaaaaa acatcacctc tagcatcacc agtattagag gcaccgcctg 360
cccagtgaca catgtttaac ggnccgcgga ccctaaccgt gcaaaggtag cataatcact 420
tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
aaccagnгаа attgacctgn cgngaagagg cggnatgaca cag 523
```

<210> 682

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (605)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (633)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (640)

<223> n equals a,t,g, or c

<220>

<221> misc feature

615

<222> (646)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 682
gggtcaaccca acacaggcat gctcataagg aaagggttaa aaaagtaaaa ggaactcggc 60
aaatcttacc cgcctgttt accaaaaaca tcacctctag catcaccagt attagaggca 120
ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgagggtt cagctgtctc 240
ttacttttaa ccagtgaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aatttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc gggtggggcg acctcggagc agaaccacaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gccnctatt taaaagggtc gttggntcac gantaaaggn cctacntgaa ctgagttcan 660
aaccggagta aattccaagg cgggttttta tctaccttaa aattcccccc tgg 713

<210> 683
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 683
tccccntact aaagngaaca aaagctgnag ctccaccgcg gtggcggccg ctctagaact 60
agtggatccc ccnggctgcn tgaattcggc acgagcggca cgaggccctg cgggggtgtac 120
accccccggtt gcggtcggg cctgctctgc taccgcgcc gaggggtgga gaagcccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganacga ggccatncan 240
gaaagcctgc anccctctga caaggacgag ggtgaccacc ccaacanca 289

<210> 684
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 684
ggangagccc agccctggga ttttcaggtg gtttcatttg gtgaacagga ctgaacagag 60
agaactcacc atggaatttg ggctgagctg gctttttctt gtggctattt taaaaggtgt 120

ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg ggggggccct 180
gagactctcc tgtacagtct ctggattcac ctttcgcaac tatgccatga gttgggtccg 240
ccagggtcca gggaaggggc tggaatgggt ctacagcaatt gacggtagtg gttataaacac 300
atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
gacagaacgt atgggtactg gctggtacgg acgaaatgac tact 464

<210> 685

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (456)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (457)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (505)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (509)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (536)
 <223> n equals a,t,g, or c

<400> 685
 attgantccn ttananaccn cctttatagc actcactata gggaaagctg gtacgcctgc 60
 aggtaccggt ccggaattcc cgggtcgacc cagcgcgccg gaccgtcacc cctggagaga 120
 cggcctccat ctctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
 tggattggta catgcagaag ccagggcagc ctccacagct cgtgggtctat aggggttcca 240
 atcgggcctc cgggggtccct gacaggttca gtggcggtgg atcaggcaca gatttttacac 300
 ttagaatcac cacggtggag gctgangatg ttggcggtta ttactgcatg caagctctac 360
 aaagtccgta cacttttggt caggggacca agctggagat caaacgaact gtgggctgca 420
 ccatctgnct tcatcttncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
 gggggcctgc tgaataactt ctatnccana gaggcccaaa gtaccagtgg aaaggnggga 540
 taacg 545

<210> 686
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 686

```
ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg 60
atcccccggg ctgcaggaat tcggcacgag cggctgggcg ctgaggatca gccgcttcct 120
gcctggattc cacagcttcg cgccgtgtac tgctgccccca tccctgcgcg cccagcctgc 180
caagcagcgt gccccggttg caggcgatcat gcagcgggcg cgaccacgc tctgggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgcgggtg gcgcgggctg gcgcgagctc 300
gggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
cgcgcttcc gcccgccgtg tgcgccggaa cttggtgcgc caagccgggc ttgcgntgc 420
tgcttgacgt gcgactgag cgaagggccca gccgtgcggn atctacaccg ancgtgtgg 480
nttccggnct tcgttg 496
```

<210> 687

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 687

```
gncganaacn aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcgncgcg 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
ccgtggaggt agatgcccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tgggtctcagc 360
agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
cgacgctcac agagctgaga cgtacagtcc agtccttgga gatcgacctg ggactt 476
```

<210> 688

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 688

```
anantaaccc tcactaaagc gaacaaaagc tggagctcca ccgcggtgcg gccgctctag 60
aactagtggg tcccccgggc tgcaggaatt cggcacgagc aggttcccgc ccggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgacacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa 483
```

<210> 689

<211> 339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 689

aggcaggagg aagccgatcg aaaactcaga gaggaggaag agaagaggag gctaaaggaa 60
gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180

622

tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtgggtg ttcaantcga 240
cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
tttgagggga ccaaaagcag ccaaaacctt aaaaaanna 339

<210> 690

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 690

gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
acaaagagaa gggggagaaa acctagcaga ccaccatgtg ctatgggaag tgtgcacgat 120
gcatcggaca ttctctgggtg gggctcgccc tcctgtgcat cgcggctaata attttgcttt 180
actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggt 240
tcttttctgg catcgtagga ggtggcctgc tgatgctcct gccagcattt gtcttcattg 300
ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
cgatgctttc ttctgtattg gctgctctca ttggaattgc aggatctggc tactgtgtca 420
ttgtggcagc ccttggttta gcagaaggac cactatgtct tgattccctc ggncagtggg 480
actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
tgcactgaac ccaacacatt ggggaatgga atggatctct ggtttctatc ctct 594

<210> 691

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

623

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 691

```
ganganacna accctcacta aagggaacaa aagctggagc tccaccgagg tgcgnccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tgttacagag gtctccagag ccttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
tcactgtagt ggggtgttga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attctgtgac cgccaattct aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc 538
```

<210> 692

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 692

```
gctcattgcc acgcgcccc gacgaccgcc cgacgtgcat tcccgattcc ttttggttcc 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
accnccaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatcttaa tgaaggactt g                                     201
```

<210> 693
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<400> 693
nncaaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccgggggttgt taacttggtt attgcagctt ataatgggta caaataaagc aatagcatca 120
caaatttcac aaataaagca ttttttcac tgcattctag ttgtgggttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancctgaatg gcgaatggga cgcgccctgt ancggcgcat taancgcggc 360
gggtgtgggtg gttaccncaa cgtgaccgct acacttgcca ncgccctaac gcccgctcct 420
ttcnctttct tccccnccct ttctccccc cgttcgcggg gggttncccc gtcaaactct 480
aaatccgggg ntccccctta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatgggtc nnctanttgg gccaccccc 589

<210> 694
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 694
ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60
gagatctgcc ctgccggcca cggctacacc tacgcgagct ccgacatccg cctgtccatg 120
aggaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccggggccaac ananaagcag cccctccggg ttcgtcacgg acacctgggt 240
tgangccggg accatccctg acaagggtga ctctcaagct ggccagggtca cgaccagtgt 300
cactcatgca cctgcctggg tcacanggaa atgccacaan cccaccaat gcctgaacag 360
ggaattgcnn aaaattccgg aaaaaa 386

<210> 695
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature

628

<222> (463)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 695

```
ggttcacagc atatattggt ggattccttgt ccatagtgc tctgctttaa gaattaacga 60
aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
actctcttcc tggcattgat tgggtggtacc agtggccagt actatgatta tgattttccc 180
ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac 475
```

<210> 696

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 696

```
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
cactatgaag aagccaaaat tacctgctca gccacaggg aacccagact gggtggaggg 180
gacattccct gttctggacg tgttgaagtg aagcatgggt acacgtgggg ctccatctgt 240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
gttgtctcta tcctgggggg agctcacttt ggagagggaa tggacagatc tgggctgaag 360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgcc 420
aaaagggaact tgtagccaca gcaa 444
```

<210> 697

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 697

```
aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagttttat gttttccag 180
tccccctccgg gaacggctga actgtttggc tcaggcccggt tgaggggggcc gggaccgggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a 411
```

<210> 698

<211> 135

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 698
ggcgtggggtt tccgggaggg nacctgnngg gccagaccc agcgcatccg gtgnaggggtg 60
ccctncaact ggaagatgna ttctgagccg atttcaagta caaagtttta gaacttgggg 120
tgcgtgtgat taggg 135

<210> 699
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 699
cgtacangag ctganggnga gcgcgcctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac 434

<210> 700
<211> 435

632

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<400> 700
gccgagcgca cgccttgccg ccgccccgca gaaatgcttc ggttaccac agtccttcgc 60
cagatgagac cgggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
agtcccaaag taacaaaaga tgggtgtgact gttgcaaagt caattgactt aaaagataaa 300
tacaagaaca ttggagctaa acttggtcaa gatgttgcca ataacacaaa tgaagaagct 360
ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
aagattagca aaggt 435

<210> 701
<211> 406
<212> DNA
<213> Homo sapiens

<400> 701
aaaatttggt gcagatgccc gagccttaat gcttcaagggt gtagaccttt tagccgatgc 60
tgtggccggtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa aagataaata 180
caagaacatt ggagctaaac ttgttcaaga tggttgccaat aacacaaatg aagaagctgg 240
ggatggcact accactgcta ctgtactggc acgctotata gccaaaggaag gcttcgagaa 300
gattagcaaa ggtgctaata cagtggaaat caggagagggt gtgatgttag ctgttgatgc 360
tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct 406

<210> 702
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 702
tgtgagttca agcgggtgcc gcagtgcccc agcgggaggg tctacgtgct gaagttcaag 60
gcagggtcca agcgggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaaccccc gatgcctggg gcaactggggg 180
ccagcggaaac agcggccacg aantctctgc gctangcggt tgagggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag 266

<210> 703
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 703
tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tcccacact catgccctt 120

accacgctac tcctacctat ctcccctttt atactaataa tcttataaaa aaaaaaaaaa 180
aaaaaaaaaa aaangggggg gccgggnncc natttngccc aaagggggg ggttttaaaa 240
ttca 244

<210> 704

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 704

gtaaganccta agtgaccctc ggctgctgca ggggatctgc agcgnactgc agccatgggg 60
gcccacctgg tccggcgcta cctgggcgat gcctcggtgg ancccgaacc cctgcagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180

637

cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gcccaccaac 240
tcatccgggt gctcaattnc aaccttaaan cttccccac ttccttggt tgcnaaccag 300
gaacgggaca aatnggaata ntncaaaca cccanaant tttntnccc ttaaanantt 360
tttaaacgga aacgaagggt ntccccccg gaaaaaaac nggggnaaaa aaaggggaaa 420
ttttttnccc ccccccgcc cgnggaaatt ttcccccccg tt 462

<210> 705

<211> 436

<212> DNA

<213> Homo sapiens

<400> 705

gaaggtcagc gccgtaatgg cgttcttggc gtcgggaccc tacctgaccc atcagcaaaa 60
ggtgttgagg ctttataagc gggcgctacg ccacctcgag tcgtggtgcg tccagagaga 120
caaataccga tactttgctt gtttgatgag agccccggtt gaagaacata agaataaaaa 180
ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
gcatccacag ccatacatct tccctgactc tctggggggc acctcctatg agagatacga 300
ttgctacaag gtcccagaat ggtgcttaga tgactggcat ctttctgaga aggcaatgta 360
tcctgattac ttgccaaga gagaacagt gaagaaactg cgggagggaa agctgggaac 420
gagagggtta gcagct 436

<210> 706

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371).
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 706
gccagaagaa cactgctgct cttggnggac gggncacagag gaatncagag ntaaacccttg 60
agngcctgcg tncgtgagaa ttcagcatgg aatgactcta ctatttncctg ggatttctgn 120
tncctgntgn aagattgccca cttgatgccg ccaaaccgatt ncatgatgag ctgggnaatg 180
aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
atgactggaa tgaaaaactc taccacagtgt ggaagcgng agacatgang tgngaaaaaac 300
tgctggaagg gagggccctg tgcaaggcgg tcctgaccag ngactnacca acccttgng 360
ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
canaagg 487

<210> 707
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature

641

<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 707
ggttgtttctc tggagcagcg ttctttttatc tccgtccgcc ttctctccta cctaagtgcg 60
tgccgccacc cgatggaaga ttcgatggac atggacatga gccccctgag gccccagaac 120
tatctttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaatgagc accagttatc ttttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtctgt acagccaacg gttttcccct tgggggcttt gaataacacc 360
accangncc ttaaggttga antgtggttc agggccatgc cnattagnng acag 414

<210> 708
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 708
gaaaagccat ctttgcattg ttctcatcc gcctccttgc tcgccgcagc cgcctccgcc 60
gcgcgcctcc tccgccgccg cggactccgg cagctttatc gccagagtcc ctgaactctc 120
gctttctttt taatcccctg catcggatca ccggcgtgcc ccaccatgtc agacgcagcc 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
aggtgacatg aggtagccga gaagaggaag aagtngggag aanagagaga anaanaagtt 360

<210> 709
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 709
aaagctatnt cgggtganact atataaggtn cgcctgcagg taccgggtccg gaattcccgg 60
gtcgacccac gngtccgctn cgggtggtgaa caagtctcca gcaccatn tggtttgtct 120
ggcccacccat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
gcncaaantg gtccttggn tctccttcca tctgccatt aactctcgca agtgccctccg 240
ngaggaaatt cnc 253

<210> 710
<211> 496
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 710

```
gaattcggca nagnaagagc tcctgacaca acctggagac tggacattat ttgtgccaac 60
caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
gaacctggtg ttactaacat ttttaaagac cacacaaggc agcaaatctt ttctggaagg 240
aagtgaatg gttacacttc tggatgaatg atttggaat ccaaaaagant ctgacatcca 300
tgggccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta ttnatncaa tnnctcccn 420
atttaagggt ttttccgggg tgggcccctt caagggaatn ccngggctnt tttttnacac 480
ctnaattttt tcccc 496
```

<210> 711

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 711

```
ntncaatgga anctccctgg agctttcacc gcggtgnccg gccgctctag aactagtgga 60
ttncccgggc tgcaggaatt cggcacgagg tcgcagacac tatgctgcct cccatggccc 120
tgcccagtggt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaaggtg 180
aagaacccca gagggaaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
atgggtccca ctgctatgcc ttgtttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
tcgngcctcc ctggtgaaga gcattggtaa cagctactca tacgtctgga ttgggctcca 420
tgaccccaca cagggcaccg agcccaatgg ataaaggttg g 461
```

<210> 712

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 712

```
cgcaaccttt ccaagggagt ggttggtga tcgccatctt agggaaaaga tggtctcgtc 60
cgtggcgcac ctggcgcggg cgaacctctt caacacgcca catctgcagc tgggtgcacga 120
tggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
tcctctagat ctggttaaata gcagangcag gtttgttttt gcatgctgga cttagagcna 360
ttgaagcntg actgangtta agtattagna ta 392
```

<210> 713

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<220>

649

<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c

<400> 713
gagaaaaagg tggaacggca gacggaactt aagcgcaa attgaaacagat gaaacaagat 60
aggatcacca gataccaggg tgtaaatctt tatgtgaaaa atcttgatga tggattgat 120
gatgaacgtc tccggaaga gttttctcca ttgtgtacaa tctactagtc aaagggtatg 180
atggagggtg gtcgcagcaa aggggttggt ttgtgtatgtt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtggcca caaagccatt gtatgtagct 300
ttagctcagc gcaaagaaga gcgccaggct cacctcacta accagtatat gcagagaatg 360
gcaagtgtac ganctgttcc caaccctgta atcaaccctt accagccagc acctccttca 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca ggggtgccata actcatccat 540
tccaaaaatat gcccggtgct atccgcccag ctgctcctan aacaccattt agtactatga 600
naacagcttc ttctcagcaa catcttaatg cacagccaca anttacaatg cacancctgc 660
tgttcatgtt caaggtcagg aacctttgan tgcttccatg ttngcatctg ccccccccca 720
aaacaaaacc aatt 734

<210> 714
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<400> 714
tantnnntta accctcacta anggcnaaa agnctngngc tncaccgcgg tggcggccgc 60
tctagcaact agtggatccc ccgggcctgt caggaattcg gcacgagctg ggacaagcga 120
gttttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataagggtta ttgtcacttc 240
aaaacacaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccca agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gatcaccttg aattggatac aattaaaaat ctcgtcaaaa aatattcaca 420

gttcataaac tttcctatatt atgtatggng cagcaagact gaaactgttn aggagcccat 480
ggaggaagaa ggagcagcca 500

<210> 715

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (360)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (398)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (410)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (422)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<400> 715
 gnanaaatgt ggtggaggct cagtttgata gccgggttcg tgcaacagga cacagtntg 60
 anaantacaa caagtgggaa acgatagagg cttggactca acaagtcgcc actganaatc 120
 cagccctcat ctctcgaggt gttatcgga ccacatttga gggacgcgct atttacctcc 180
 tgaagggttg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
 tgccaganan ttggatttct ccctgcattc ngccagtngg tttntaaaa aangcgggtc 300
 ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
 ttcccgccct gtggcccca tattgaagg caacttcnac cccgggaacn aaaacccaat 420
 tntggaaaaa aaaaccccc cccccctgg tgggattctt gctttggttg ggnnccaccc 480
 caaaaaaatt t 491

<210> 716
 <211> 331
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (242)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<400> 716
gtaaagccgg ggcagcagcc ggcgggtccgg gtgtaagcgg cgtgtgcgtg tgcaagagcc 60
gctacccgggt gtgcggcagc gacggcacca cctacccgag cggtgccag ctgcgcgccg 120
ccagccagag ggccgagagc cgcggggaga aggccatcac ccaggtcagc aagggcacct 180
gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
angtgtactt gagctgtgag gtcacgcgaa tcccgacacc tgctctcatc tggaacaagg 300
tanaaagggg tcactatgga nntcanagga c 331

<210> 717
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<400> 717
tattcnttact aagggtacaa agttngggtc tnccaccngg tngaggaccg ctcctagcaa 60
ctagtggntc ccccggnct gcaggaattc ggcacgagna tattagnacg cggttattcg 120
gtgagcgggtg gtgggtttatt cttccgtgga gttaagggtc ccggtggacat ctcaggtctt 180
cagggctctc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
ggaccactat attttctcca gaaggtcgct tataccaagt tgaatatgcc atggaagcta 300
ttggacatgc aggcacctgt ttgggaattt tagcaaatga tgggtgttttg cttgcagcag 360
agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
aatgac 486

<210> 718
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 718
tcgacccacg cgtccgcagc ccacccatcc acgttgactc atcctcagag acgaatcgac 60

accctcaact cagatggata cacccttgag ccagacaaac cgcgccgat gcccatggac 120
acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
ctgaagcgcg ataacctcct catagctgac attgaacttg gctgcggcaa ctttggtca 240
gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
cagctggaca acccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
ctggtcatgg agatgntggg ggcgggcgct gcacaagttc ctggtcggca agaaggaag 479

<210> 719

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 719

gcgtgcccat gagaatgaga tcaccaaagt gcgaaaagtt actttcaatg gactgaacca 60
gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120

tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
tcctcaagggt cttcctcctt cccttacgga attacatctt gatggcaaca aaatcagcag 240
agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
cagcatctct gctgttgaca atggctctct ggccaacacg cctcatctga gggagcttca 360
cttggacaac aacaagctta ccagagtacc tgggtgggctg cagagcataa agtacatnca 420
nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtacg ttctggccac 480
ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
ggccangact ggggagaana cagccatcca cc 572

<210> 720

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<400> 720

ggntaaatca gaactcgaat ggccttggtt tcttgctctg gggctcttat gctcagaaga 60


```
agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
tgtcagtgtg tagaggggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
ttaattctta agtactctgc ataaggggga aaagcttcca gaaagcagcc atgaaccagg 360
ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
tgtctttctc tgcaacatgg cttcggncta aaatatgcnn aagacannat gagggccaat 480
acttaat 487
```

<210> 721

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<400> 721
cggacgcgtg ggcgtctgct ggggcacctg aaggagactt gggggcaccc gcgtcgtgcc 60
tcctgggttg tgaggagtcg ccgctgccgc cactgcctgt gcttcattgag gaagatgctc 120
gccgccgtct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgtg attttgcaaa tgatgctaca tttgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360
atcntgggtt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaact ctccanctac ggntccgntt atttncggg cttc 464

<210> 722
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)

660

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<400> 722

```
gttgcacagc anctgcacgc gccgtggctc cggatctctt cgnctttgca gcgtagcccg 60
agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgcccttcatt cagaccacgc anctgcacgc anncatggct gacacattcc tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggcccg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt                                     320
```

<210> 723

661

<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 723
gcccaccatg gctgcaatcc gaaagaagct ggtgatcggt ggggatgggtg cctgtgggaa 60
gacctgctc ctcatcgnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg 152

<210> 724
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (553)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<400> 724
gctgctatgt tcaatataag aaatattgga aagacgctcg tcaccaggac ccaaggaacc 60
aaaattgcat ctgatggctc caagggctcg gtgtttgaag tgagtcttgc tgatttcag 120
aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
tgcctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catgggtcaa 240
aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
gctcagcacc aacaggtccg ccaaattccg agaagatga tggaaatcat gacccgagag 420
gtgcagacaa atgacttgaa agaagtggc aataaattga ttncagacgc attggaaaag 480
acatagaaaa ggcttgga tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
aatgctgaag aanccaagnt tgaatgggna aac 573

<210> 725
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 725
gcttgaaant aaccctcact aaaggaaca aaagctggag ctccaccgag gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
agcccagcgc gcctcgctgc catgcctcgg aaaattgagg aaatcaagga cttcctgctc 180
acagcccgc gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
tttaaagttc gatgcagcag atacctttac accctgggtc tctactgacaa agagaaggca 300
gagaaactga agcagtcctt gcccccggt ttggcagtga aggaactgaa atgaaccaga 360
cacactgatt ggaactgtat tatattaaaa tactaaaaat cct 403

<210> 726
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 726
cgcaagnncg anactaacc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtggg tcccccgggc tgcaggaatt cggcacgaga gccatcagg 120
aagccaagat ggggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccagctctct gctctccaca 240
gggctccccg cccanccgg cctgataaag cgcgcccact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtgggtggccg aaaacgcca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtgtg ctggaagcct 420

664

tcagtcenntt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
 ttactggggtt ggtgaagatt cc 502

<210> 727

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 727

ggcagcagcg aacgcgnaga gcacgccatg aaggcctcgg gcacgctacg agagtacaag 60
 gtagtgggtc gctgcctgcc ccccccaaa tgccacacgc cgcccctcta ccgcatgcga 120
 atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
 aagaagatga agaagtcttc aggggagatt gtctactgtg ggcaggtgtt tgagaagtcc 240
 cccctgcggg tgaagaactt cgggatcttg ctgcgctatg actcccggag cggcacccac 300
 aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
 g 361

<210> 728

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (234)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (251)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (319)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (360)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<400> 728
 gaagangctc gcctctagtg tctccgctg tggcaagaag aagtctggtt agaccccaat 60
 gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
 gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
 ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaaggtagc gccnatgccc 240
 gaatgccaaa naaggtcaca tggattaaga aaatgaagat ttgcgcccg ctgctcaaaa 300
 aatacgtgaa tcttaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
 ggaatttttt caaaaacaac cgattctcnt ggaacacttc c 401

<210> 729
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>

666

<221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (60)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (527)
 <223> n equals a,t,g, or c

<400> 729
 gcacagngan ancnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgn 60
 ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcc gccatcttcc 120
 agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcaccgga tatatgttct 180
 ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
 aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg cccacaagt 300
 gttaccatgg caaaactgga agagtctaca atgttaccga gcatgctgtt ggcattgttg 360
 taaacaaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
 ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
 agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct 530

<210> 730
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (33)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 730

```
gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtgggtgc ttgtnctggc 60
tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
naanngccccc tacagccatg cnctgggtggc tgggaattga accgctaccc ccgcaaata 180
ncngctgccn tggggcanga agaagntcgc caggagggtca aagatatant cttttgtgaa 240
ngtgtgtnac tacaatcacc tnatgccnc aaggtactct gtgngatatt ccccttgggg 300
caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
aaggagnccc aggtc                                     375
```

<210> 731

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc featur

<222> (207)

<223> n equals a,t,g, or c

<400> 731

gcgcccgtgc gaagggagcc gccgccatgt ctgcgcctct gcaatggatg gtcgtgcgga 60
actgctccag tttcctgata aagaggaata agcagaccta cagcactgag cccaataact 120
tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
agccggnagc cgacggcaaa nggtgcn 207

<210> 732

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 732

ggcagaatgn ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac 60
gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg caccctcggc actcaaagag attcggaaat ttgcatgaa ggagatggga 180
actccagatg tgcgcatgga caccaggctc aacaaagctg tctgggccaa aggaataagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgctcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
gacgtcatag ctcttctata gtgtcaccta aattcaattc actgccgtcg gtttacaacg 540

671

tcgtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tcccccttcg 600
ccagctgcgt aataacgaan aggcccgnac cgatcgccctt tccacagttg cgcancctga 660
atggcgaaatg gacgcgcctt taccgngcan taagcgccgc gg 702

<210> 733

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

672

<222> (185)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (212)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (260)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (310)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<400> 733
 naattaaccc tcactaaagg gngcaaaagc tgggtgctcca ccgcggtgcg accgctctag 60
 anctagtggg tccccggggc tgcaggattt cggcagcanc ncgtgcagat tcgagcanag 120
 gagcgnaagg gaacgtcatc gtttggaag cntcgcaata agacgcacac gttgtgccgc 180
 cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
 gccaaagcga agagaaagtn taactggagt gccaaaggcta aaagacgaaa taccaccgga 300
 actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
 ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
 caacgattag tcatgcaata a 441

<210> 734
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (42)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<400> 734

```
ggccgcagaa gcgagatgac gaaggggaacg tcatcggtttg gnaagcgctcg caataagacg 60
cacacgttgt gccgccgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
cgaaataacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
ttcatcttta agaatgtcaa cgnnttttagt catgcaataa antgtnctgg ggttttaaaa 360
aattaaaaga aaagnaanaa 379
```

<210> 735

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (185)

<223> n equals a,t,g, or c

<400> 735

```
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atggtgaaga 60
aaattgaaat cagccagcac gccaaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgagc tgtgggggatc tggcactgtg gttcctgcat gaagacagtg gntggngng 180
cctgnac 187
```

<210> 736

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 736

```

tcgacccacg cgtccgcccc cgctccggcc tcagccctac cagcactggt catgtctaaa 60
ggtcacatgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
tacaagaaga ccaaggaagc tgttttgctc ctttaagaaac ttaaagcctg ggaatgatat 180
caaaaagggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaccgt 240
cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
naagcttgct ncctgggtgg gcatgtgggg acgtttncgg cattgggang gaaatggctt 420
ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
ttaactacan tcttcccagg caccaagatg gattaatana gatcttggca gaatctggaa 540
aagcccagag gtnccaaggg cccttcgggc accagc 576

```

<210> 737

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 737

```

gctccgncat ggcgtgtgct cgcccactga tatcggtgta ctccgaaaag ggggagtcac 60
ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
caggtcatca gactagtgtc gagtcttggg gtactggcag agctgtggct cgaattccca 240

```

ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaaac atgtgtc 297

<210> 738

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (353)
 <223> n equals a,t,g, or c

<400> 738
 gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
 actctgaagg gacncacagn tatngtgaag ggccccanag gaaccctgcg gagggacttn 120
 aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
 aaatggtggg gtnacagaaa ggaactggct accgttcgga ctattttag tagcatgtacag 240
 aacatgatca aggggtgttac actgggcttc cgttacaaga tgaggncctgt gtatgctcac 300
 ttncatcatca acgttggttat ccaagagant gggctctattg ttgaaatcca nant 354

<210> 739
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 739
 ccgccatcat ggggtcgcatg catgctcccg ggaagggcct gtcccagtcg gctttaccct 60
 atcgacgcag cgtccccact tgggtgaagt tgacatctga cgacgtgaag gagcagattt 120
 acaaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
 atggtgttgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaaagtcta 240
 agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
 ttcgaaagca tcttgagagg aacagaaaagg ataaggatgc taaattccgt ctgattctaa 360
 tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
 attggaaata tgaatcatct acagcctctg ccctggctgc ataaatttgt ctgtgtactc 480
 aagcaataaa atgattgttt aact 504

<210> 740
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 740

679

```

ggacccgccca acatggggcgg cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacggc cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagatcgcca ttatccccag caaaaagctc cgcaacaaga tagcagggtta cgtcacgcat 180
ctgatgaagc gaattcagag aggcccgta agagggtatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttggtatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac 399

```

<210> 741

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 741

```

aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccgggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
agccgctgct gtcagggaaca tatctgaagc aagcgtcttc gacgcctacg tgcttcccaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgttagggaat 240
cgatcccgtc aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tantttttaa aaaaaaaaaa aaaccnagg 420
ggggncccg t c 431

```

<210> 742

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (178)

680

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<400> 742

```
gtgcagcggg tcattaaaat cgatggcaag gtccgaactg atataaccta ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tgggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gtnaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg 357
```

<210> 743

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 743
ggggcggtat gccgcaaac gcttccgcaa agctcagtgt cncattgtgg agcgcctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
cnagcatgcc ttcgagatca tacgcctgct cacaggcnaa gaaccctctg caggtcctgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana 249

<210> 744
<211> 383
<212> DNA
<213> Homo sapiens

<400> 744

```
gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtagc agtcccacta 60
tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
aatcagcagt ctcctggagg agcagttcca gcagggcaag cttcttgctg gcatcgcttc 240
aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
gtaataaagg tgttttattgg ttt 383
```

<210> 745

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 745

```
gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgctcat gccagccac ttcagccgag gctccaagag 300
tgtggccgcg cggntcctcc aagccctngg agngngctgaa aatgggtggaa anggaccaag 360
atggcgggccc gcaaactgac acctcagga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc 452
```

<210> 746

<211> 114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<400> 746

tgcatgctgg ngctgggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac 114

<210> 747

<211> 165

<212> DNA

<213> Homo sapiens

<400> 747

ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcacgagg 120
cagcccgtgg cagaatctgc tcctgggaca cccacagggg ggctg 165

<210> 748

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<400> 748
ggctagaaga tggtttttga gagcaccctt ttaccactg cctggntgca gaagtgccga 60
aagagcactg gactccgga ggacacagca ttgttggtt tgccatgtac tattttacct 120
atgaccctgt gattggcaag ttattgtatc ttgaggactt ctctgtgatg agtgattata 180
gaggcttttg cataggatca gaaattctga agaattctaag ccagggtgca atgagggtgtc 240
gctgcagcag catgcacttt ttggttagca gaatggaatg aaccattcat naacttctat 300
aaaagaagag gtgcttctga tctgtccagt gaagaagggt ngagacttgt taagaatcga 360
caaggagtct tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctggttggn 480
agtgaatta atttaaatga gcaccattt caaaagcttt aattaccaag tgggcgnttg 540
ntncntgtt ttgaaaattg aaggtcttgt tttaaaagggn ggc 583

<210> 749
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<400> 749

acncggaggc ttcttnatta cggncggggn tgatgaggga aagctggtga cgcctgcagg 60
 tgaccggtcc ggaattcccg ggtcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
 tctccgctcc cagacatggg tccctcggct tcctgcctcg gaagcgcana gcaggcatcg 180
 tgggaagggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
 cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
 ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtgg 360
 tttgtgggca ttgttngcta cgttggaaaa ccctcgangg ctccggaact tcaagaatn 419

<210> 750

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 750

ggccgaacat ggagatcaag attatatctg gcaactgcatt gatctcttct tagatttcat 60
 tactgtcttc agaaaactca tgatgatcct ggccatgaat gaaaaggata agaagaaaga 120
 gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccacccctca 180
 tttccttttt gcacacatta cagggtggtg gttctgtgat aatgaaaagc atcagaaaag 240
 cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
 atatagtttg gagtttggtc tcactctcct ggggttcccc tcaactccctt ttttggaac 360
 cccatctgta gcctcttcct ctactcaggc agtcgaccgg ccacgatgag aagtgggacc 420
 agcagagggc gccaaactca ggagcccgtt ttnccaccca gtttcattca cccantggac 480
 ctgaactgtt tgggtananc ccnccgg 507

<210> 751

<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)

690

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<400> 751

```
nactggaagt nctccgggag aanggatctc nacngcgggtg ccggacgctc tagaactagt 60
ggatcccccg ggctgcaggt agcctgagct tagctcagcg ccggggcctn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggttnc 240
agncccgtca ccttgcntgc ctgcctcggg agccagggct gggcacctgg cagtncctgc 300
ggtcccgat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgtnccact cccatcttct ttccggacaa tgaaataaag agntaccacc cagcaaaaaa 420
aaaaaaaaa acctg 435
```

<210> 752

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<400> 752
gcggcacgag gcgcccagag agacaccaga gaacccacca tggccccott tgagcccctg 60
gcttctggca tcctgttggt gctgtggctg atagcccccga gcagggcctg cacctgtgtc 120
ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
gggacaccag aagtnaacca gaccacetta taccagcgtt atgagatcaa gatgaccaan 240
atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacaccccc 300
gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
tggaacagcc tgagcttagc tcagcgccgg gncttnacca agacctacac tgttggctgn 480
gaggaaatgc acaagtgtt ccctgtttat ccaccccctg caaactgcag agtgggcact 540
cattgttgtt aggacngacc agctcctacn angctcttna aaaggncctt c 591

<210> 753
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<400> 753

```
aagcacttgt ccagatgagc agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat acccggactc cggaccacaa gcaactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccgtcatc tctgttgctc atgggcatgc aagaacactg aagctctttt ccatgtgttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaatth caatgaatgc 480
ttggaagana aaatthttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc 547
```

<210> 754

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 754

```
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaagggtgcc 120
ggccgacacc gaggtggttt gtgtcctccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggtgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagccctg gcatgatcaa agactgcgga ccacgtgggt ggtcctgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat 384
```

<210> 755

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<400> 755
tgtagatcctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
cagtgcgaagc agccctgccca gccacctcct gtgtgccccca cgccaaagtg cccaagagcc 120
atgtccacccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagcn 240
gaanttcccc cnn 253

<210> 756
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 756

ggcanaaana aggtaggaat aaggctagac ctttaacttc cctaagggnat acttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaattttttt ttttttaaaa naantncnga aagcattttg aaaaaaaaaa aacaaaaaaaaa 180
aag 183

<210> 757

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<400> 757

agcctttaat anatcatata ggaaantggt agntgcagta cggtnngaatt tccgggtgac 60
tcagcggtccg ggattgnanc anctgggatt ggagtttgg 99

<210> 758

<211> 60

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<400> 758
ggcacgaggt tttttttttt tttttttttt ttttntntn ttttnnttt ttataaaaaa 60

<210> 759
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 759
agaganaacc gagttttttt tttttttttt tttttttttt tttttttttt ttttttttnc 60
ccntnn 66

<210> 760
 <211> 487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (409)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (477)
 <223> n equals a,t,g, or c

<400> 760
 tacagatgga gcaaagtgtc taacagagaa atagaggtga tgctgctaaa gggagaaatg 60
 ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcattgagat 120
 tttggaagaa gttttttact ttggtttagt ctttttttcc ttcttttta ttcagctaga 180
 atttctggtg gggttgatgg agggtataat gtgtctgtgt tgcttcaa at tggctgaaa 240
 ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
 tttcttttct tttttaaaagt aaacttgtgt attgagctta actgtatttc agtattttcca 360
 gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
 cagtctgaat gangacttta tttcatggat tataataagg aatgaggtaa ttngngnctc 480
 acattca 487

<210> 761
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (253)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<400> 761
gaaaaggcta aaatcatgaa ttagttacaa gcaacagtac caacttatgt gaccctgag 60
gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc ttcatcttc ttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtactttt ttatttagta aatcgattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta ttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaagggtgt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
aa 422

<210> 762
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

700

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 762
tttgaccact tgccaagtcc ctgtctcttt cagacacaga caagcttcat tttaaattatt 60
tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taattttataa 120
ctttattgtt acttcatcag tgtttccttt tgaaagggtg atgaattcat tacattttta 180
ttctaagtga ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt 375

<210> 763
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<400> 763

```
caatatgtag cttactcttt ttttcccccc ttcttaaacc accagtgggt catttttaag 60
atTTTTtcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctcttta gtaggaactc tttgttttta actcttggtg tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact tttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtncctat gggnaattac 360
cttgggaaaag tc 372
```

<210> 764

<211> 195

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 764
cggaacgcgtg ggcggacgcg tggggaaagg taagctctag cttaangtct angatttgtn 60
ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aatc 195

<210> 765
<211> 103
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<400> 765
attaataatg gataaccattc taaacaagtn aatccaagtt aagcccggtta aggagaaaaga 60
aattaagggtt agcggntcat gtncaagctg ngnttgaaag tgg 103

<210> 766
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 766
cccgcgcggg cgcaggcggc cggaatggcg gggcccggct ggggtccccc gcgcctggac 60
ggcttcaccc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaaagaagg aactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac ttacagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catctntttc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360

ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caaggggggg 420
gccggaaacc ttggtncctc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
ttcttgggcc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg 538

<210> 767

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 767

ctttcccaag ggaaacactc agctttctat agaaaattgc actttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcacc c agtggtttt gttagggtcaa atgttcctgt 120
atagtttttg caaatagagc tgtatactgt ttaaagttag caggtgaact gaactgggg 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtgggttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtattttaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg 415

<210> 768

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 768

```
ctttgtacag gggctcagtt caggggaagag ttgagcttct ctctgagggg tccctagggg 60
gaccctcag gccaggccct gatccagttc tccagggtct ttctcagggt cagggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tgtccttcct ctgcagcgag tgtctgcagg gtctggatcc aggaaaggaa ttctgatctg 240
tggaagttag tctcccccg gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaacca ggcctgacaa tcccgtatgt nggaagtaga 360
actgaccccc aacaccacaga ngtcagtng aaatactcac ggtatacatg gaaaaaaaaa 420
annaa 425
```

<210> 769

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<400> 769
attctagatg tagcttgtgc agatgtagca gganaatagg aaaacctacc atctcagtgn 60
gcaccagctg gcctcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
tggagttttc taattctctn ttttggggaat ngtagattgt ttttgaaatg ctttnacgat 240
gttaaaatan tttatt 256

<210> 770
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c.

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<400> 770

ggnagagggt caacgatgtg gtgtggcatg taagctgggt catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtnc agctgaagca ctncatgtta 180

cgaggaagaa actacaagtn atgttcaa atctattttggg tcatttttnat gtacctttgg 240
gttcaggcat tatttggggg gttttnttc caaaggaact naantaaagt natnttgctt 300
attaaaaaaaa ggaaaaa 316

<210> 771
<211> 68
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 771
caaaagcngg agcnccaccg cnggcgaccg cncctanaact agtggatccc ccggnetgca 60
ggaattca 68

<210> 772
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<400> 772
cggacggtgg gtttttntnt tttttttttt tttttttttt tnttntnttt tttttttatn 60
nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagtc ttttntcttc tcccaccctt agggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaaccggggg acagnggacg caggncagac 240
taggagggan ccgggang 258

<210> 773
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)

<223> n equals a,t,g, or c

<400> 773

```
ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcaactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccctttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggg 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttggtc aggtatccag 300
ggacggttct cacctctgtc ttttctcctt gcagggtgact cctgcacctg cgccggctcc 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctcttt 420
cctctacccc ttctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgccggga aattgggtggc ctctcagtg atccntatca 540
aggagaagca aggaatccnt aattncgggn gnccggtgta cttaact 587
```

<210> 774

<211> 89

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 774

ggcagagggga aacatcagggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaanannana aanaantat 89

<210> 775

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

714

<400> 775

ggtccggcgn ggtggaggga aacgcctccn tntctatata aggaatttcc cggtgtntnc 60
gggtcccttt ccctntnttc agagtggggg gcccaaattt gggcgtctg ttt 113

<210> 776

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 776

ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng 66

<210> 777

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 777

atttgatga aagaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60

aatttacttt tttgcctaatt taggaggaag cttgggtcata aggaaaaaga gctgtgttta 120
ggaaatagtgt tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
agctgaagggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaaac ncgagggggg gcccggtacc 420
caattcgccc taaagngagt c 441

<210> 778

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 778

gcttactttt aaccagtgaatttgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaattttatt aatgcaaaca gtacctaaca aacccacagg 120

```

tcctaaacta ccaaacctgc attaaaaatt tcggttgggg cgacctcgga gcagaaccca 180
acctccgagc agtacatgct aagacttcac cagtcaaagc gaactactat actcaattga 240
tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
agtccatata aacaataggg ttacgacct cgatnttgga tcaggacatc ccgatngtgc 360
agccgctatt aaaggttcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
cggagtaatc caggtcgggt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
nng 483

```

<210> 779

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 779

```

ccctcttccc ggtccagct ccgcccag ctccagcctt tgctccccct cccaaagtcc 60
cctccccgga gcggagcgca cctagggtcc ctcttcgctc cccccagccc agctaccggt 120
tcagaccagc agcctcgggg ggcaccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc ccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgctc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggntttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn 389

```

<210> 780
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 780
ttgttttttaa aactatgnac caggtttcta atgatgaaat aaagcacctg tttgttttat 60
accaaaa 66

<210> 781
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 781
ggcagagcag agcagacgca caggccggaa aaggcgcac taacnggtat ctaggctttg 60
gtaactgcgg acaagttgct ttnacctgaa ttnatgata catttcatta aggttccagt 120
tataaaatat ttngttaaatt atttattaan gtggactata gantgcaaac tnccatttnc 180
cngntaaact tgttttttaa ttatggccent aggtaaccca tatngtaggg tattaatttc 240
cttgaacca aacca 255

<210> 782
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<400> 782
ttnagtagag acaggggttc accatgtnag tnaggctggg ctcgaactcc tgacctcagg 60
tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
ccnecgctca aaatngcata ttcaaagaag caatttcagt tcctttctaa gctttgtgag 180
tnaaggggct cactgactt cctaggccct gtaaatttaa accagtcttt aaggttttgc 240
caggaaagt cccttctttc caagtgggtt tttccaaatg ggcacaatgg caagcnaaac 300
agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc 348

<210> 783
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 783
ggcagcagct acaatggcac tgtggactna tgtttccttc gccgagngnc tggagcgggg 60
atctgatgaa aaggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct 160

<210> 784
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<400> 784
ggcacgagcc gggatcgtgc cattncattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaaaa aaaaaannng n 81

<210> 785
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc f ature
<222> (539)

<223> n equals a,t,g, or c

<400> 785

```
gagctgcagg catcagagaa ccagccctgc tcacgccatg cccgcccccg ccttccctct 60
tccctcttcc ctctccctgc ccagccctcc cttccttcct ctgccggcaa ggcagggacc 120
cacagtggct gcctgcctcc gggaggggag gagagggagg gtgggtgggt ggganggggc 180
cttcctccag ggaatgtgac tctcccaggc cccagaatag ctcctggacc caagcccaag 240
gcccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcc 300
cccctgctgg tgccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccctggta cccaattctg ggncccgnc ctaanctcg ncccaaccca 420
tcattctgtg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
a 541
```

<210> 786

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 786

```
cccacgcgtc cggcttaaca cgtgcgcgag tcgggggctc gcacgaaagc cgccgtggcg 60
```

caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
ccgccgaggg cgcaccaccg gcccgctctg cccgccgcgc cggggaggtg gagcacgagc 180
gcacgtgtta ggaccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
ctctggtgga ggtccgtagc ggtcctgacg tgcaaatcgg tcgtccgacc tgggtatagg 300
ggcgaaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
gataagcttg gcgctctcgc aagaccccg aggaacccn gncanggaat ttttatccgg 420
tnaaagcgaa ttg 433

<210> 787

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 787

cccaggatgt gtggcgagag cctgggccag cccacagcgt tcctagtcag gcagccacac 60
cttgggtcctc atcttggtcc cttccaatct gaaacctcgt gcctgggtcg tctgccacct 120
acatttctct ttcagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcatttttt gtaggctctg gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtccac actgaaatcc cctctagtca 300
cccattecca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcagggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaaa aaaaaaa 527

<210> 788

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

726

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<400> 788

gcttcacgtg gtctgacaat ttatTTTTgc catcattttt ttaattaaag aaaaaatttc 60
cagaagagga aaaaaaaact acaaaaaaca aaacattgaa gggtgatatt ttatgtggaa 120
naacatttga attgaattca gaatttttct gaagggtgtan atactttttt ttttttttna 180
ncaaaaaccc tnatttcaaa agg 203

<210> 789

<211> 124

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<400> 789

ggcacgagca gectacagcc gcctgcatct gtatccancg ccagggtccc ccaggtcccag 60
ctgcgcgcgn cccccagtcc cgcaccngtt cggncacaggc taagtttagcc ctnaccatgc 120
cggt 124

<210> 790

<211> 293

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 790

```
ggcanagcgg cagtccagga cctgcaggcc ccagaggacc tgtnggaccc antggacctc 60
ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnngtga aagnggatct nagggtctcc cagggccacn cagggcaacc agggccctnc 180
tggnacctcc tgggtgccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggnccgt tttgnccccg ngtttantgg ggg      293
```

<210> 791

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<400> 791
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaagg ggcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
gcaacgtca 129

<210> 792
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<400> 792
ggcacgagcg gccttgagcg cgacgaagac gtgtaggcct gctttccgag gggcgagcgc 60
ggcgccgcgg ggaggagggc ctgcgcgcag tcccgggcgc gttctagggc gccatgctgc 120

730

gggaagtctc gcgcgattag tggggaggtc tcgcggcttc tggctacttg gtggcgaggt 180
gaagagcttc tgcaggtgct gggggcggcg aacgcggcgg gaaagaaaaa aaaaaaaaaa 240
aaaaaanctn ggnaagtatt ttanan 267

<210> 793

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 793

ggggaaaagt tttggcagga gcgggagaat tctgcggacc tgcgggacgg cggcggtggc 60
gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctacacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagagggtcc atctgcgttc agaccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcagctaca 420
cagactctcc cggagctcct cgncaacctt atg 453

<210> 794

<211> 141

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 794
caacgaccgc gtttncntgg cacgggggtcn ggcccgccctg gccctgggaa agcntccac 60
ggngggggcg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatacga 120
gcgacggtgg tngtggnngt g t 141

<210> 795
<211> 167
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<400> 795

ggggaccac ccgagggtcc agccaccagc cccctcacta atagcngcca ccccnncagc 60
ngcggcacag cagcagcgac gcagcggcga cantcagagc agggaggccg cnccacctgc 120
gggccggccg gagcgggcag ccccangcnc cctccccggg cacncgc 167

<210> 796

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<400> 796
aattcggnan cacgcnacgn cataccgtgg cagnttctgt ntgagacgaa catncngnag 60
nctccactca gctaattgna caacatgngn nctacttctc nctnnctttt acannnacag 120
gannnnnggcc nnagttaata tatccngtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctgggttca ttganctnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t 331

<210> 797
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (597)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (635)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (643)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (657)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (678)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (695)
 <223> n equals a,t,g, or c

<400> 797
 gctccacctt actaccagac aaccttagcc aaaccattta cccaaataaa gtataggcga 60
 tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
 ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat taactagaaa 180
 taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
 gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
 caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
 atttgccac agaaccctct aaatccctt gtaaatttaa ctgntagtcc aaagaggaac 420
 agctctttgg aactagga aaacacctgt agagagagta aaaaatttaa caccatagtg 480
 aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
 aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
 gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
 attaaaacac tgaactgnac attaaacagc caatntcta 699

<210> 798

<211> 138

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<400> 798
cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaancccn 120
gggggggncc ccncccc 138

<210> 799
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 799

```
cacactgtna tgctagcctc acgaaactgg aataagcctt cgaaaagaaa ttgtccttga 60
agcttgatc tgatcagc actggattgt agaacttggt gctgattttg accttgatt 120
gaagttaact gttccccttg gtatttgttt aataccctgt acatatcttt gagttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggt tggtagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtggtctg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgccgggt ctgtcaagg ttggaaatcc caagccgtag gaccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnnnggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac 496
```

<210> 800

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<400> 800

```

gctgaaaaag gnggggggga gccattann acgcccagac ggantaaccc caggccccgc 60
cacaccaccc cttgccaaan tcatctgcct gctccccggg gggagangac cgccggcctc 120
tntactatgc ccaccagccc accagggana aaataancca tganangcng cgncgccac 180
ccngtgtncn cantccccnc ctccccgntt cccttagaan cctgccgcgt cctatctcat 240
gacgctcatg gaaccncttt ctttgatctn ctntntctta tctccccctc tttntngttc 300
taaagaaaat cattttgatg caaggtcctg cctggnatca natccgaagt gtcctgcag 360
tnaccctttn cctggcattt ctcttccacg cgacaagtct gctagtgaga tcttgcatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggcn nctgggcca gactgt 516

```

<210> 801

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<400> 801

```

naagcncctg gngaacttgg ggaaggcncg cctgcaggta ccggtccgga attccccggg 60
cgaccttcgc gtttttatat atatagatat atatatagat atatatatag 120
atatatatag atatatatat agatatatat agatatatat agatatatat agatatatat 180
atatatatag atatatatag atatatagat atatatagat atatatatag atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa 284

```

<210> 802

<211> 153

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<400> 802
cggacggctg tgtagcgcgt ggggtgtaaga cttgcccaag tcccanagca cctcacctcc 60
cgaagccacc atccccaccc tgtcttccac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg 153

<210> 803
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

745

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 803
cacgtgagat taaaaccaat tttttcccca ttttttctcc ttttttctct tgctgcccac 60
attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttggtc ttggataaaa agtcatacac ttttaaaaaa 180
aaaaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct attttctttc 240
tttgatgtt ttggattcag tattccttta nccataaatt ttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaaa 360
aaaggggggn cgcnnccagag ggn 383

<210> 804
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature

746

<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<400> 804
ggcacgagct gggttgctct ttgcatctgc acgtgttcgc agtcgtttcc gcgatgctga 60
ctctggagct cagcacagcc ctggagcacc agnggtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat ttaaattata tgttttgtgc tctcatztat 300
ttatcatttt tttctgtaca aatctattat ttctaggttt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctccccctt caaccgtgtc 420
acaaagacca gacngtgctg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag 509

<210> 805
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 805

```
ncaaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aacctcttaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acaccacta 540
cctaaaaaat cccaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncc cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg 753
```

<210> 806

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 806

```
ggaagaagga ngaaaagcag gaagctggaa aggaagggtac tgcaccatct gaaaatgggtg 60
aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaatct ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatggt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcacccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
ttttttttta atcattatga aanagtggga agcttngnag gtna 404
```

<210> 807

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<400> 807

750

cngttcctcc gcctgtncn tgggggggcc cttagaggga aggagaggtt tctcacacca 60
aggcagatgc tcctctggtg ggaggggtnt ggcccggcaa gattgaagga tgtgcagggc 120
ttcctctcag agccgcccac actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtacccttg gtatgccntg aacatntggt ttccccaccc aantgcggct aagtctcttt 300
ttccttgat cagccaggcg aaattggggc ttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca gggggtatgn aagggttttc tgncccngga 420
ggnntnag 428

<210> 808

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (270)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (286)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (288)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (342)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (346)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (349)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (375)
 <223> n equals a,t,g, or c

<400> 808
 cnagccccga ggggctctcg cttctggcgc caangccccg ccgcgcgcgc gccggggccga 60
 cnccgcctcg gggacagtgc caggngggga gtttgactgg ggcggtacac ctgtcaaacg 120
 gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
 gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccggggcctca 240
 cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
 actcgttgt cgcggccaaag cgttcatagc gacgtcgctt tnccangtnc gatgtcggat 360
 cttcntatca ttgtnaagca gaattcacca agcgttggtat tgt 403

<210> 809
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (481)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (571)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (573)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (581)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (583)
 <223> n equals a,t,g, or c

<400> 809
 tcgacccacg cgtccgggac gacagttagc tatgctgata cccttctgtg aggagttgaa 60
 tttgaagacc acttggtgtg ttcacaaaac cagaagtaat tacagggtgt tcctgaaaag 120
 ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
 aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
 ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taaggagggt 300
 gggagaatga tgacttacct tgaagtcctt cccttgactg ccgcactgg ggcctgttct 360
 gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
 nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
 ntaaggantc catttaccaa cccgcggttt tgtggtcagt gcccgaaggg ggtaggttga 540
 agggggctta acaaacatgg aagtnggggg nanaagggat nan 583

<210> 810
 <211> 272
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

755

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<400> 810
tttttttttt tttttggacg ttaaaggcat ttnattccag cgncttctag agagcttagt 60
gtatacagat gaggggtgtcc gctgctgctt tccttcggaa tccagtgtt ccacagagat 120
tancctgtan cttatatttg acattcttca ctgtctgttg ttnanncnacc gtagcttttt 180
accgttcact tccccttcca actatgtcca gatgtgcagg ctccctcnct ctggactttc 240
tccaaaggca ctgaccctng gnctnnactt tg 272

<210> 811
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<400> 811
ggcagagnat aaaatcttaa agcactcata atatggcatc cttcaatttc tgtataaaaag 60
cagatctttt taaaaagata cttctgtaac ttaagaaacc tgggcattta aatcatattt 120
tgtcttttagg taaaagcttt ggtttggtgt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaa accttttggt ctctccgtga acttaccttt ccctttttct ttctcttttt 240
tttttttgga anattaatng ttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300

<210> 812

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<400> 812

```
gccaccttac taccagacaa ccttagccaa accatctacc caaataaagt ataggcgata 60
gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccttat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca caccctgcta ttagcaaaa tagtggaag atttataggt tgangcgaca 300
aacctaccga gcctggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggtccc aaaaaccccc taattccctt tgggtaattt taactgttng tcccaaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaanaa ttaaaaaa 478
```

<210> 813

<211> 63

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 813

```
gccgcgtcc ttcagactgc ccggagagcg cgctctgcct gccgcctggn tgnctgncnc 60
tga 63
```

<210> 814
<211> 73
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<400> 814
ggcngacatt cagactgagc gtgcctacca aaagtanncg accatctttc anaacaanaa 60
gagggtcctg ctg 73

<210> 815
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<400> 815
gctgccgcct gcctgcctgc cactgaggnt tcccagcacc atgagggcct ggatcttctt 60
tctcctttgc ctggccggga gggccttggc ngncctcan cn 102

<210> 816
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 816
gctccacgag ggttcagctg tctcttactt ttaaccagtg aaattgacct gcccgagaag 60
aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaaaaa tttcgggttg 180

ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctagggg 300
taacagcgca atcctattct agagtccata tcaacaatan ggtttacnac ctcgatgnnn 360
ggatcaggac attccaatg 379

<210> 817

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (185)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<400> 817

```
tcgacccacg cgtccggcca cagccacagc caggctagcc tcgccgggttc ccgggtggcg 60
cgcggttcgct gcctccttca gctccaggat gatcggccag aagacgctct actccttttt 120
ctccccccagc cccgccaaga agcgacangg ccccaagncc cgagccggcc gtcaagggga 180
ccggngtggc tngggttgct naagaaagcg gaatncgggg ggcatcccag ccaagaangn 240
cccggctggg naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttncggaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccngngnc cttgnttaan aatncggggg 360
ccngnaaang ttncctcttg gggntttttg gaanaanaac ctgggaaaga aagcanctta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggattttt 480
tttncaaaaa ggaaaggaaa 500
```

<210> 818

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<400> 818
cggtaccaat ttacacagga gacagctatg accatgatta cncnagctc gnaattaacc 60
ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnctnggcc tcacgcnnnt tccatcccta cgcattgctt acatagcana 240
cgaggtgacg atgcncacct taccatcaag atcanttgnc caccaatggt acttgaacct 300
acgagtacac ccgaccaccn ggtggacta 329

<210> 819
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<400> 819

```
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgcct tttccttttc 60
atctgttggt ctgtgggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttggt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaatt tgtgggatca ttgcatttcc agaaatctgc ctccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatcggtc attgcctttc cagggttatt tagtaaagtt tgttgaaaac aaaaacgcct 360
tttcttggtt cttttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggctcctccat 540
ttcntanccc caaggacttc ctcanttttc aaattgggaa gggnacctaa aaggggggtac 600
aattaaaacc ctgggggtaaa gggggnaaaa aaaaaaaaaa aaaaaaaaaa 648
```

<210> 820

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggagag ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggtg tcnataacct 300
tgatatcnaa ttcggcacna gcaaccctca ttcccacacc cacgccggag gctgcgcctg 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggcntg cttgagcaaa atccgccaat tataaaaaaa aaacnctcc 469

<210> 821
<211> 432
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttggtgc 120
agaaggaaag ggaaacatac atttattcat gccagtctgt tgcattgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctccttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgcct ttcctgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaaa aaaanccggg ggggggccc gtaacccatt tccccctana 420
gnngnggggt tt 432

<210> 822
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 822
aagtctcttc agtgcaactcg ctccctctct ggctaaggca tgcattagcc actacacaag 60
tcattagtga aagtgggtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctctgttgga ctgtggagct ctggaaggct tgggtgggagt gaatttgccc 180
acacettaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttgat 240
gtcattgggc ctctcccacc gatttcatta cgggtgccacg catccatggg atctggggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aacttttttt tttcccttaa gaattaaaac 420
ggggnana 428

<210> 823
<211> 100
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 823

ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta 100

<210> 824

<211> 173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<400> 824

cggacgcgtg ggcggacgcg tgggaggacg cgtggggccga gaaccacagg tgtacaccct 60
gcccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa 173

<210> 825

<211> 341

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<400> 825
cccaaaccga ctccacctta ctaccagaca acctagacca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacaccctt ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t 341

<210> 826
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 826

```
gcaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taaccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgccacag aacctcttaa atcccttgt aaatttaact gttagnccaa 420
agaggaacaa gtcctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaaccata ct 492
```

<210> 827

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 827

```
ggtcgtgctc tcccggggccg ggtccgagcc gcgacgggcg agggggcggac gttcgtggng 60
aacgggaccg tccttctcgc tccgccccgc ggggggtcccc tcgtctctcc tctccccgcc 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggacccc ggcccgacct cgccgtcccg 180
cccgcgcct tctgcgtcgc ggggtgcggc cggcggggtc ctctgacgn gcagacagcc 240
ctcgtgtcn cctccagtgg angncgactt gcgggcggta ctctacgan 290
```

<210> 828

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<400> 828

```
gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttgagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagagcng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tatttttttt aagtgggaga aggggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtcttg tcggcaaggc agcctcctgg ccantttctc tgctcatgtt tctggtttagc 360
agagttcaga gccaatgtgt tnacttcttg gttgtncctg tgnangaagc ctttcaaaac 420
```

<210> 829

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tggagagtga caaaatggtg acaggtagct ggggacctag gctatctcnc catgaagggt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240

agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca 298

<210> 830

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<220>

<221> misc featur

<222> (497)

<223> n equals a,t,g, or c

777

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 830

```
ncggnaactn ctcactatag ntgaaagctg gtacnccctgc aggtaccgggt ccggaattcc 60
cggggggcac cccttggtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
agagagtctt cgggagagga ggaggagtag ggccgcctcg gggctgggca tccggcccct 180
ggggccaccc cttgtcagcc ggggtgggtag gaaccgtaga ctcgctcatc tcgcctgggt 240
ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
gaagtttaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
agtttcttat ttggagcttt tggaacagc ttaagctttt aacttggaat gatangnatt 480
aatccccttc attggtntcc aaaagccaat aangng 516
```

<210> 831

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 831

```
ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
caatgttctt ggcccatcat gacattgggt agcatctaact gtaagttttg tgcttccaaa 120
tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180
```


778

```

tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaaaa aggccgcatg atctttcttg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
catcctatatt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatggggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaagggtc tgatgt 636

```

<210> 832

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 832

```

gatcagatta tgagttactg tttaaaagaa aaatgctggt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttaa ttcacccac actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatat gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttggt agtgggtctga 300
aataattatt ttcctgttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattacaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt ttaacccac ggntangttc tanatttatt ctttcn 466

```

<210> 833

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 833

```
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
atctgactca ttctttattc tatttttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggt attaccctcc taatagtcac actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaaatg tttctcagga aaaaa 405
```

<210> 834

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 834
gcaaaccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatggt ggatcaggac 240
atccccgatgg tgcagccgct attaaagggt cgtttgntca acgattaaag tcctacgtga 300
tctgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt 402

<210> 835
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>

781

<221> misc feature
 <222> (110)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (117)
 <223> n equals a,t,g, or c

<400> 835
 nttnaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaan aaaaaaaaaa aaaaaaaaaa 60
 aaaaaggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
 t 121

<210> 836
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (340)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (357)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (386)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<400> 836
 agtaagcctg ccagacacgc tgtggcggct gcctgaagct agtgagtcgc ggcgccgcgc 60
 acttggtggtt gggtcagtgc cgcgcgccgc tcggtcgtta ccgcgaggcg ctggtggcct 120
 tcaggctgga cggcgcggtt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
 gatgtcgatc ttcaccccca ccaaccagat ccgcctaacc aatgtggccg tggtagcgat 240
 gaagcgcgcc aggaagcgct tcgaaatcgc ttgctacaga aacaagtcgt cggctggcgg 300
 agggcttttg aaaaagactt gatgaatttt gcagaccan caangtttgt aaagttncca 360

aagtcagttt ccaaaaggaa attcancagg ggtttgaaa atgccaanga a 411

<210> 837

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 837

gcggcagctc agcaagtggg ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
 ctggccaaga ccaccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
 tctgggatcg ggaaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
 cctgaaatga tagcaggagg acttggtgga ccccccttc aggcgccatc tagcacagcc 240
 tggccctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
 tcccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa ngnnnn 386

<210> 838

<211> 124

<212> DNA

<213> Homo sapiens

<400> 838

gctttcaata gatcgacgcg agggagctgc tctgctacgt acgaaacccc gaccagaag 60
 caggtcgtct acgaatgggt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
 gagg 124

<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 839

atctggttgt gggtacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgagggngctg ggggtgaggg 120
taatgttcgn accagtgtctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcggtt 240
tacaagacgn agggaggagn ntgatgaaaa 270

<210> 840

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 840

```
ctctacatca cgcgccccgac cttagctctc accatcgctc ttctactatg aacccccctc 60
cccataccca accccctggg caacctcaac ctaggcctcc tatttattct agccacctct 120
agcctagccg ttactcaat cctctgatca ggggtgagcat caaactcaaa ctacgccctg 180
atcggcgcac tgcgagcagt agcccaaacn atctcatatg aagtcaccct agccatcatt 240
cctactatca acattactaa tnngttggt cctttaacct ctccaccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataattctca 420
ggttcaaatt                                     430
```

<210> 841

<211> 650

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<400> 841

```
gccgtcatct actctacat ctttgcaggc acactcatca cagcgctaag ctgcgactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcggtccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tctctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatacataa tggctatagc aataaaaacta 300
```



```

ggaatagccc cctttcactt ctgagtccca gaggttacct aaggcacccc tctgacatcc 360
ggcctgcttc ttctcacatg acaaaaaacta gcccccatct caatcatata ccaaattctct 420
ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
ttaactaatt atattaatcc taactactac ggantctact actaacttaa 650

```

<210> 842

<211> 509

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<400> 842

```

gcctgtgtct gctaaaaaag aaaagaaagt ttcttgcctg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtgggtccc aaagctgcca ttgtggcccc 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggcaatcat attatctcag ggacatgcgc atcatggcgt ggcaagagcc ttogggttca 300
gaagatcagg ccttctatcc tgggctgcaa catccttcga gttgaatatt ccttactgat 360
ctatgttagc gttcctggat ccaagaaggt catccttgac ctgcccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc 509

```

<210> 843

<211> 158

<212> PRT

787

<213> Homo sapiens

<400> 843

Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
1 5 10 15

Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
20 25 30

Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro
35 40 45

Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
50 55 60

Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
65 70 75 80

His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
85 90 95

Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
100 105 110

Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
115 120 125

Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
130 135 140

Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
145 150 155

<210> 844

<211> 601

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

788

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (383)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844

Thr	Glu	Leu	Leu	Lys	Ser	Ala	Ala	Arg	His	Gly	Thr	Ala	Glu	Ser	Ala
1				5				10					15		

Pro	Trp	Pro	Arg	Gly	Gln	Gly	Trp	Gln	Gln	Trp	Gln	Gln	Gln	Trp	Arg
			20				25					30			

Arg	Arg	Trp	Xaa	Ser	Trp	Arg	Lys	Asp	Arg	Ala	Arg	Thr	Arg	Arg	Gln
		35					40					45			

Glu	Glu	Leu	Ala	Leu	Ser	Gln	Glu	Pro	Lys	Ser	Ser	Ser	Arg	Gly	Xaa
	50					55					60				

Ser	Pro	Gly	Ala	Ser	Pro	Ala	Ser	Pro	Thr	Ser	Gln	Gln	Phe	Cys	Cys
65					70					75				80	

Phe	Arg	Leu	Asp	Gln	Val	Ile	His	Ser	Asn	Pro	Ala	Gly	Ile	Gln	Gln
				85					90					95	

Ala	Leu	Ala	Gln	Leu	Ser	Xaa	Arg	Gln	Xaa	Ser	Val	Thr	Ala	Pro	Gly
			100					105					110		

Gly	His	Pro	Arg	His	Lys	Pro	Gly	Pro	Pro	Gln	Ala	Pro	Gln	Gly	Pro
		115					120					125			

Ser	Pro	Arg	Pro	Pro	Thr	Arg	Tyr	Glu	Pro	Gln	Arg	Val	Asn	Ser	Gly
								130			135		140		

789

Leu Ser Ser Asp Pro His Phe Xaa Glu Pro Gly Pro Met Val Arg Gly
 145 150 155 160
 Val Gly Gly Thr Pro Arg Asp Ser Ala Gly Val Ser Pro Phe Pro Pro
 165 170 175
 Lys Arg Arg Glu Arg Pro Pro Arg Lys Pro Glu Leu Leu Gln Glu Glu
 180 185 190
 Ser Leu Pro Pro Pro His Ser Ser Gly Phe Leu Gly Ser Lys Pro Glu
 195 200 205
 Gly Pro Gly Pro Gln Ala Glu Ser Arg Asp Thr Gly Thr Glu Ala Leu
 210 215 220
 Thr Pro His Ile Trp Asn Arg Leu His Thr Ala Thr Ser Arg Lys Ser
 225 230 235 240
 Tyr Arg Pro Ser Ser Met Glu Pro Trp Met Glu Pro Leu Ser Pro Phe
 245 250 255
 Glu Asp Val Ala Gly Thr Glu Met Ser Gln Ser Asp Ser Gly Val Asp
 260 265 270
 Leu Ser Gly Asp Ser Gln Val Ser Ser Gly Pro Cys Ser Gln Arg Ser
 275 280 285
 Ser Pro Asp Gly Gly Leu Lys Gly Ala Ala Glu Gly Pro Pro Lys Arg
 290 295 300
 Pro Gly Gly Ser Ser Pro Leu Asn Ala Val Pro Cys Glu Gly Pro Pro
 305 310 315 320
 Gly Ser Glu Pro Pro Arg Arg Pro Pro Pro Ala Pro His Asp Gly Asp
 325 330 335
 Arg Lys Glu Leu Pro Arg Glu Gln Pro Leu Pro Pro Gly Pro Ile Gly
 340 345 350
 Thr Glu Arg Ser Gln Xaa Thr Asp Arg Gly Thr Glu Pro Gly Pro Ile
 355 360 365
 Arg Pro Ser His Arg Pro Gly Pro Pro Val Gln Phe Gly Thr Xaa Asp
 370 375 380
 Lys Asp Ser Asp Leu Arg Leu Val Val Gly Asp Ser Leu Lys Ala Glu
 385 390 395 400
 Lys Glu Leu Thr Ala Ser Val Thr Glu Ala Ile Pro Val Ser Arg Asp
 405 410 415

790

Trp Glu Leu Leu Pro Ser Ala Ala Ala Ser Ala Glu Pro Gln Ser Lys
 420 425 430

Asn Leu Asp Ser Gly His Cys Val Pro Glu Pro Ser Ser Ser Gly Gln
 435 440 445

Arg Leu Tyr Pro Glu Val Phe Tyr Gly Ser Ala Gly Pro Ser Ser Ser
 450 455 460

Gln Ile Ser Gly Gly Ala Met Asp Ser Gln Leu His Pro Asn Ser Gly
 465 470 475 480

Gly Phe Arg Pro Gly Thr Pro Ser Leu His Pro Tyr Arg Ser Gln Pro
 485 490 495

Leu Tyr Leu Pro Pro Gly Pro Ala Pro Pro Ser Ala Leu Leu Ser Gly
 500 505 510

Val Ala Leu Lys Gly Gln Phe Leu Asp Phe Ser Thr Met Gln Ala Thr
 515 520 525

Glu Leu Gly Lys Leu Pro Ala Gly Gly Val Leu Tyr Pro Pro Pro Ser
 530 535 540

Phe Leu Tyr Ser Pro Ala Phe Cys Pro Ser Pro Leu Pro Asp Thr Ser
 545 550 555 560

Leu Leu Gln Val Arg Gln Asp Leu Pro Ser Pro Ser Asp Phe Tyr Ser
 565 570 575

Thr Pro Leu Gln Pro Gly Gly Gln Ser Gly Phe Leu Pro Ser Gly Ala
 580 585 590

Pro Ala Ser Arg Cys Phe Tyr Pro Trp
 595 600

<210> 845

<211> 67

<212> PRT

<213> Homo sapiens

<400> 845

Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
 1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Ph Trp
 20 25 30

791

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
 35 40 45

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys
 50 55 60

Ser Ile Asp
 65

<210> 846

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
 1 5 10 15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
 20 25 30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
 35 40 45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
 50 55 60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
 65 70 75 80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
 85 90 95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
 100 105 110

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe
 115 120 125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala
 130 135 140

Gly Lys
 145

792

<210> 847

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847

Ala	Arg	Met	Ala	Ala	Asp	Lys	Xaa	Pro	Ala	Ala	Gly	Pro	Arg	Ser	Arg
1															15

Ala	Ala	Met	Ala	Gln	Trp	Arg	Lys	Lys	Lys	Gly	Leu	Arg	Lys	Arg	Arg
			20					25						30	

Gly	Ala	Ala	Ser	Gln	Ala	Arg	Gly	Ser	Asn	Ser	Glu	Asp	Gly	Glu	Phe
			35					40					45		

Glu	Ile	Gln	Ala	Glu	Asp	Asp	Ala	Arg	Ala	Arg	Lys	Leu	Gly	Pro	Gly
	50					55						60			

Arg	Pro	Leu	Pro	Thr	Phe	Pro	Thr	Ser	Glu	Cys	Thr	Ser	Asp	Val	Glu
	65				70					75					80

Pro	Asp	Thr	Arg	Glu	Met	Val	Arg	Ala	Gln	Asn	Lys	Lys	Lys	Lys	Lys
				85					90						95

Ser	Gly	Gly	Phe	Gln	Ser	Met	Gly	Leu	Ser	Tyr	Pro	Val	Phe	Lys	Gly
			100					105						110	

Ile	Met	Lys	Lys	Gly	Tyr	Lys	Val	Pro	Thr	Pro	Ile	Gln	Arg	Lys	Thr
		115					120						125		

Ile	Pro	Val	Ile	Leu	Asp	Gly	Lys	Asp	Val	Val	Ala	Met	Ala	Arg	Thr
		130				135						140			

Gly	Ser	Gly	Lys	Thr	Ala	Cys	Phe	Leu	Leu	Pro	Met	Phe	Glu	Arg	Leu
145					150					155					160

Lys	Thr	His	Ser	Ala	Gln	Thr	Gly	Ala	Arg	Ala	Ser	Ser	Ser	Arg	Arg
				165					170					175	

793

Pro Glu Xaa Trp Pro Cys Arg Pro
180

<210> 848

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848

Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr
1 5 10 15

Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu
20 25 30

Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val
35 40 45

Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His
50 55 60

Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr
65 70 75 80

Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu
85 90 95

Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu
100 105 110

Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly
115 120 125

Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu
130 135 140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu
145 150 155 160

794

<210> 849

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849

Val	Gln	Asn	Val	Gly	Tyr	Gln	Ser	Lys	His	Cys	Gly	Ala	Val	Xaa	Tyr
1				5				10						15	

Ala	Arg	Leu	Pro	Cys	Glu	Met	Ile	Gln	Asp	Gln	Asn	Lys	Ala	Leu	Asp
		20						25					30		

Cys	Ser	Lys	Thr	Gln	Asn	Ser	Ser	Arg	Ala	Glu	Gly	Gly	Arg	Leu	Ile
		35					40					45			

Trp	Xaa	Glu	Gly	Pro	Lys	Tyr	Lys	Thr	Asp	Gly	Leu	Arg	Leu	Glu	Thr
	50					55					60				

Arg	Gly	Leu	Arg	Trp	Lys	Ala	His	Val	Pro	Arg
65					70				75	

<210> 850

<211> 383

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850

Ser	Thr	His	Ala	Ser	Ala	His	Ala	Ser	Val	Ala	Asn	Glu	Val	Ile	Lys
1				5				10						15	

Cys	Lys	Ala	Ala	Val	Ala	Trp	Glu	Ala	Gly	Lys	Pro	Leu	Ser	Ile	Glu
		20						25				30			

795

Glu	Ile	Glu	Val	Ala	Pro	Pro	Lys	Ala	His	Glu	Val	Arg	Ile	Lys	Ile	
		35					40					45				
Ile	Ala	Thr	Ala	Val	Cys	His	Thr	Asp	Ala	Tyr	Thr	Leu	Ser	Gly	Ala	
	50					55					60					
Asp	Pro	Glu	Gly	Cys	Phe	Pro	Val	Ile	Leu	Gly	His	Glu	Gly	Ala	Gly	
65					70					75					80	
Ile	Val	Glu	Ser	Val	Gly	Glu	Gly	Val	Thr	Lys	Leu	Lys	Ala	Gly	Asp	
				85					90					95		
Thr	Val	Ile	Pro	Leu	Tyr	Ile	Pro	Gln	Cys	Gly	Glu	Cys	Lys	Phe	Cys	
			100					105					110			
Leu	Asn	Pro	Lys	Thr	Asn	Leu	Cys	Gln	Lys	Ile	Arg	Val	Thr	Gln	Gly	
	115						120					125				
Lys	Gly	Leu	Met	Pro	Asp	Gly	Thr	Ser	Arg	Phe	Thr	Cys	Lys	Gly	Lys	
	130					135					140					
Thr	Ile	Leu	His	Tyr	Met	Gly	Thr	Ser	Thr	Phe	Ser	Glu	Tyr	Thr	Val	
145					150					155					160	
Val	Ala	Asp	Ile	Ser	Val	Ala	Lys	Ile	Asp	Pro	Leu	Ala	Pro	Leu	Asp	
				165					170					175		
Lys	Val	Cys	Leu	Leu	Gly	Cys	Gly	Ile	Ser	Thr	Gly	Tyr	Gly	Ala	Ala	
			180					185					190			
Val	Asn	Thr	Ala	Lys	Leu	Glu	Pro	Gly	Ser	Val	Cys	Ala	Val	Phe	Gly	
	195						200					205				
Leu	Gly	Gly	Val	Gly	Leu	Ala	Val	Ile	Met	Gly	Cys	Lys	Val	Ala	Gly	
	210					215					220					
Ala	Ser	Arg	Ile	Ile	Gly	Val	Asp	Ile	Asn	Lys	Asp	Lys	Phe	Ala	Arg	
225					230					235					240	
Ala	Lys	Glu	Phe	Gly	Ala	Thr	Glu	Cys	Ile	Asn	Pro	Gln	Asp	Phe	Ser	
				245					250					255		
Lys	Pro	Ile	Gln	Glu	Val	Leu	Ile	Glu	Met	Thr	Asp	Gly	Gly	Val	Asp	
			260					265					270			
Tyr	Ser	Phe	Glu	Cys	Ile	Gly	Asn	Val	Lys	Val	Met	Arg	Ala	Ala	Leu	
		275					280					285				
Glu	Ala	Cys	His	Lys	Gly	Trp	Gly	Val	Thr	Xaa	Val	Val	Gly	Val	Ala	
	290					295					300					

796

Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly
305 310 315 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser
325 330 335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp
340 345 350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe
355 360 365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile
370 375 380

<210> 851

<211> 154

<212> PRT

<213> Homo sapiens

<400> 851

Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg
1 5 10 15

Val Gly Val Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
20 25 30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
35 40 45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe
50 55 60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu
65 70 75 80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu
85 90 95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
100 105 110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
115 120 125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn
130 135 140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met

797

145

150

<210> 852

<211> 396

<212> PRT

<213> Homo sapiens

<400> 852

Asp Ser Arg Val Asp Pro Arg Val Arg Ala Ile Ile Ala Lys Thr Phe
 1 5 10 15

Lys Gly Arg Gly Ile Thr Gly Val Glu Asp Lys Glu Ser Trp His Gly
 20 25 30

Lys Pro Leu Pro Lys Asn Met Ala Glu Gln Ile Ile Gln Glu Ile Tyr
 35 40 45

Ser Gln Ile Gln Ser Lys Lys Lys Ile Leu Ala Thr Pro Pro Gln Glu
 50 55 60

Asp Ala Pro Ser Val Asp Ile Ala Asn Ile Arg Met Pro Ser Leu Pro
 65 70 75 80

Ser Tyr Lys Val Gly Asp Lys Ile Ala Thr Arg Lys Ala Tyr Gly Gln
 85 90 95

Ala Leu Ala Lys Leu Gly His Ala Ser Asp Arg Ile Ile Ala Leu Asp
 100 105 110

Gly Asp Thr Lys Asn Ser Thr Phe Ser Glu Ile Phe Lys Lys Glu His
 115 120 125

Pro Asp Arg Phe Ile Glu Cys Tyr Ile Ala Glu Gln Asn Met Val Ser
 130 135 140

Ile Ala Val Gly Cys Ala Thr Arg Asn Arg Thr Val Pro Phe Cys Ser
 145 150 155 160

Thr Phe Ala Ala Phe Phe Thr Arg Ala Phe Asp Gln Ile Arg Met Ala
 165 170 175

Ala Ile Ser Glu Ser Asn Ile Asn Leu Cys Gly Ser His Cys Gly Val
 180 185 190

Ser Ile Gly Glu Asp Gly Pro Ser Gln Met Ala Leu Glu Asp Leu Ala
 195 200 205

Met Phe Arg Ser Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly
 210 215 220

798

Val Ala Thr Glu Lys Ala Val Glu Leu Ala Ala Asn Thr Lys Gly Ile
 225 230 235 240

Cys Phe Ile Arg Thr Ser Arg Pro Glu Asn Ala Ile Ile Tyr Asn Asn
 245 250 255

Asn Glu Asp Phe Gln Val Gly Gln Ala Lys Val Val Leu Lys Ser Lys
 260 265 270

Asp Asp Gln Val Thr Val Ile Gly Ala Gly Val Thr Leu His Glu Ala
 275 280 285

Leu Ala Ala Ala Glu Leu Leu Lys Lys Glu Lys Ile Asn Ile Arg Val
 290 295 300

Leu Asp Pro Phe Thr Ile Lys Pro Leu Asp Arg Lys Leu Ile Leu Asp
 305 310 315 320

Ser Ala Arg Ala Thr Lys Gly Arg Ile Leu Thr Val Glu Asp His Tyr
 325 330 335

Tyr Glu Gly Gly Ile Gly Glu Ala Val Ser Ser Ala Val Val Gly Glu
 340 345 350

Pro Gly Ile Thr Val Thr His Leu Ala Val Asn Arg Val Pro Arg Ser
 355 360 365

Gly Lys Pro Ala Glu Leu Leu Lys Met Phe Gly Ile Asp Arg Asp Ala
 370 375 380

Ile Ala Gln Ala Val Arg Gly Leu Ile Thr Lys Ala
 385 390 395

<210> 853

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 853

Ser Arg Leu Gly Leu Gln Ser Cys Gly Leu Ser Thr Gln Ala Ile Thr
 1 5 10 15

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His

799

20	25	30
Ala Arg Gln Ser Met Arg Val Thr Leu Ala Thr Ile Ala Trp Met Val		
35	40	45
Ser Phe Val Ser Asn Tyr Ser His Thr Ala Asn Ile Leu Pro Asp Ile		
50	55	60
Glu Asn Glu Asp Phe Ile Lys Asp Cys Val Arg Ile His Asn Lys Phe		
65	70	75
Arg Ser Glu Val Lys Pro Thr Ala Ser Asp Met Leu Tyr Met Thr Trp		
85	90	95
Asp Pro Ala Leu Ala Gln Ile Ala Lys Ala Trp Ala Ser Asn Cys Gln		
100	105	110
Phe Ser His Asn Thr Arg Leu Lys Pro Pro His Lys Leu His Pro Asn		
115	120	125
Phe Thr Ser Leu Gly Glu Asn Ile Trp Thr Gly Ser Val Pro Ile Phe		
130	135	140
Ser Val Ser Ser Ala Ile Thr Asn Trp Tyr Asp Glu Ile Gln Asp Tyr		
145	150	155
Asp Phe Lys Thr Arg Ile Cys Lys Lys Val Cys Gly His Tyr Thr Gln		
165	170	175
Val Val Trp Ala Asp Ser Tyr Lys Val Gly Cys Ala Val Gln Phe Cys		
180	185	190
Pro Lys Val Ser Gly Phe Asp Ala Leu Ser Asn Gly Ala His Phe Ile		
195	200	205
Cys Asn Tyr Gly Pro Gly Gly Asn Tyr Pro Thr Trp Pro Tyr Lys Arg		
210	215	220
Gly Ala Thr Xaa Ser Ala Cys Pro Asn Asn Asp Lys Cys Leu Asp Asn		
225	230	235
Leu Cys Val Asn Arg Gln Arg Asp Gln Val Lys Arg Tyr Tyr Ser Val		
245	250	255
Val Tyr Pro Gly Trp Pro Ile Tyr Pro Arg Asn Arg Tyr Thr Ser Leu		
260	265	270
Phe Leu Ile Val Asn Ser Val Ile Leu Ile Leu Ser Val Ile Ile Thr		
275	280	285
Ile Leu Val Gln His Lys Tyr Pro Asn Leu Val Leu Leu Asp		

800

290

295

300

<210> 854

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854

Val Pro Ala Ser Phe Ala Ala Ala Ser Ala Val Leu Ser Ala Val Phe
 1 5 10 15

Pro Gln Glu Pro Ala Tyr Phe Leu Asn Met Glu Ser Val Val Arg Arg
 20 25 30

Cys Pro Phe Leu Ser Arg Val Pro Gln Ala Phe Leu Gln Lys Ala Gly
 35 40 45

Lys Ser Leu Leu Phe Tyr Ala Gln Asn Cys Pro Lys Met Met Glu Val
 50 55 60

Gly Ala Lys Pro Ala Pro Arg Ala Leu Ser Thr Ala Ala Val His Tyr
 65 70 75 80

Gln Gln Ile Lys Glu Thr Pro Pro Ala Ser Glu Lys Asp Lys Thr Ala
 85 90 95

Lys Ala Lys Val Gln Gln Thr Pro Asp Gly Ser Gln Gln Ser Pro Asp
 100 105 110

Gly Thr Gln Leu Pro Ser Gly His Pro Leu Pro Ala Thr Ser Gln Gly
 115 120 125

Thr Ala Ser Lys Cys Pro Phe Leu Ala Ala Gln Met Asn Gln Arg Gly
 130 135 140

Ser Ser Val Phe Cys Lys Ala Ser Leu Glu Leu Gln Glu Asp Val Gln
 145 150 155 160

Glu Met Asn Ala Val Arg Lys Glu Val Ala Glu Thr Ser Ala Gly Pro
 165 170 175

Ser Val Val Ser Val Lys Thr Asp Gly Gly Asp Pro Ser Gly Leu Leu
 180 185 190

801

Lys Asn Phe Gln Asp Ile Met Gln Lys Gln Arg Pro Glu Arg Val Ser
 195 200 205

His Leu Leu Gln Asp Asn Leu Pro Lys Ser Val Ser Thr Phe Gln Tyr
 210 215 220

Asp Arg Phe Phe Glu Lys Lys Ile Asp Glu Xaa Lys Glu
 225 230 235

<210> 855

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855

Thr Pro Gly Ile Phe Thr Glu Gln Ser Met Ile Thr Phe Leu Pro Leu
 1 5 10 15

Leu Leu Gly Leu Ser Leu Gly Cys Thr Gly Ala Gly Gly Phe Val Ala
 20 25 30

His Val Glu Ser Thr Cys Leu Leu Asp Asp Ala Gly Thr Pro Lys Asp
 35 40 45

Phe Thr Tyr Cys Ile Ser Phe Asn Lys Asp Leu Leu Thr Cys Trp Asp
 50 55 60

Pro Glu Glu Asn Lys Met Ala Pro Cys Glu Phe Gly Val Leu Asn Ser
 65 70 75 80

Leu Ala Asn Val Leu Ser Gln His Leu Asn Gln Lys Asp Thr Leu Met
 85 90 95

Gln Arg Leu Arg Asn Gly Leu Gln Asn Cys Ala Thr His Thr Gln Pro
 100 105 110

Phe Trp Gly Ser Leu Thr Asn Arg Thr Arg Pro Pro Ser Val Gln Val
 115 120 125

Ala Lys Thr Thr Pro Phe Asn Thr Arg Glu Pro Val Met Leu Ala Cys
 130 135 140

Tyr Val Trp Gly Phe Tyr Pro Ala Glu Val Thr Ile Thr Trp Arg Lys
 145 150 155 160

802

Asn Gly Lys Leu Val Met Pro His Ser Ser Ala His Lys Thr Ala Gln
 165 170 175
 Pro Asn Gly Asp Trp Thr Tyr Gln Thr Leu Ser His Leu Ala Leu Thr
 180 185 190
 Pro Ser Tyr Gly Asp Thr Tyr Thr Cys Xaa Val Glu His Ile Gly Ala
 195 200 205
 Pro Glu Pro Ile Leu Arg Asp Trp Thr Pro Gly Leu Ser Pro Met Gln
 210 215 220
 Thr Leu Lys Val Ser Val Ser Ala Val Thr Leu Gly Leu Gly Leu Ile
 225 230 235 240
 Ile Phe Ser Leu Gly Val Ile Ser Trp Arg Arg Ala Gly His Ser Ser
 245 250 255
 Tyr Thr Pro Leu Pro Gly Ser Asn Tyr Ser Glu Gly Trp His Ile Ser
 260 265 270

<210> 856

<211> 153

<212> PRT

<213> Homo sapiens

<400> 856

Val Val Ala Arg Phe Ile Arg Ile Tyr Pro Leu Thr Trp Asn Gly Ser
 1 5 10 15
 Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro Val Tyr
 20 25 30
 Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu Asp Phe
 35 40 45
 Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val Val Asn
 50 55 60
 Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys Ser Ser
 65 70 75 80
 Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu
 85 90 95

803

His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile His Gly
 100 105 110

Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Met Gln Tyr Leu
 115 120 125

Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Trp Cys Arg
 130 135 140

Thr His Ala Ser Thr Trp Cys Pro His
 145 150

<210> 857

<211> 258

<212> PRT

<213> Homo sapiens

<400> 857

Cys Leu Ser Gln Lys Ala Val Arg Ala Pro Arg Phe Leu Arg Gly Leu
 1 5 10 15

Pro Ser Gly Arg Val Asn Cys Phe Leu Gln Ala Gly His Gly Ala Ser
 20 25 30

Arg Ser Gln Gly Ser Gly Leu Cys Gln Met Leu Lys Glu Gly Ala Lys
 35 40 45

His Phe Ser Gly Leu Glu Glu Ala Val Tyr Arg Asn Ile Gln Ala Cys
 50 55 60

Lys Glu Leu Ala Gln Thr Thr Arg Thr Ala Tyr Gly Pro Asn Gly Met
 65 70 75 80

Asn Lys Met Val Ile Asn His Leu Glu Lys Leu Phe Val Thr Asn Asp
 85 90 95

Ala Ala Thr Ile Leu Arg Glu Leu Glu Val Gln His Pro Ala Ala Lys
 100 105 110

Met Ile Val Met Ala Ser His Met Gln Glu Gln Glu Val Gly Asp Gly
 115 120 125

Thr Asn Phe Val Leu Val Phe Ala Gly Ala Leu Leu Glu Leu Ala Glu
 130 135 140

Glu Leu Leu Arg Ile Gly Leu Ser Val Ser Glu Val Ile Glu Gly Tyr
 145 150 155 160

Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro Asn Leu Val Cys

804

165 170 175
 Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu
 180 185 190
 Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala
 195 200 205
 Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His
 210 215 220
 Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile
 225 230 235 240
 Ser Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu
 245 250 255
 Val Met

<210> 858
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 858
 Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro
 1 5 10 15
 Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly
 20 25 30
 Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu
 35 40 45
 Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys
 50 55 60
 Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val

65	70							75							80		
Lys	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr		
				85					90					95			
Phe	Ser	Asn	Ala	Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly		
			100					105					110				
Leu	Glu	Trp	Val	Gly	Arg	Ile	Lys	Ser	Lys	Thr	Asp	Gly	Gly	Thr	Thr		
			115				120					125					
Asp	Tyr	Ala	Ala	Pro	Val	Xaa	Arg	Gln	Ile	His	His	Leu	Lys	Arg			
	130					135					140						

```
<210> 859
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 859
Val Thr Met Ala Gln Gln Ala Ala Asp Lys Tyr Leu Tyr Val Asp Lys
  1                      5                      10                      15
Asn Phe Ile Asn Asn Pro Leu Ala Gln Ala Asp Trp Ala Ala Lys Lys
      20                      25                      30
Leu Val Trp Val Pro Ser Asp Lys Ser Gly Phe Glu Pro Ala Ser Leu
      35                      40                      45
Lys Glu Glu Val Gly Glu Glu Ala Ile Val Glu Leu Val Glu Asn Gly
      50                      55                      60
Lys Lys Val Lys Val Asn Lys Asp Asp Ile Gln Lys Met Asn Pro Pro
      65                      70                      75                      80
Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu Asn Glu
      85                      90                      95
Ala Ser Val Leu His Asn Leu Lys Glu Arg Tyr Tyr Ser Gly Leu Ile

```

806

	100						105						110		
Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser															
	115						120					125			
Glu Val Gly Xaa Xaa Ala Gly															
	130						135								

```
<210> 860
<211> 52
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 860
Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe
 1             5             10             15

Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr
      20             25             30

Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys
      35             40             45

Gly Pro Arg Asn
      50

```

```
<210> 861
<211> 321
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 861
Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser
  1                      5          10          15
Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser
          20          25          30
```

Gly	Ser	Ala	Ser	Thr	Leu	Val	His	Asn	Gly	Thr	Ser	Ala	Arg	Ala	Thr	35	40	45
Thr	Thr	Pro	Ala	Ser	Lys	Ser	Thr	Pro	Phe	Ser	Ile	Pro	Ser	His	His	50	55	60
Ser	Asp	Thr	Pro	Thr	Thr	Leu	Ala	Ser	His	Ser	Thr	Lys	Thr	Asp	Ala	65	70	75
Ser	Ser	Thr	His	His	Ser	Thr	Val	Pro	Pro	Leu	Thr	Ser	Ser	Asn	His	85	90	95
Ser	Thr	Ser	Pro	Gln	Leu	Ser	Thr	Gly	Val	Ser	Phe	Phe	Phe	Leu	Ser	100	105	110
Phe	His	Ile	Ser	Asn	Leu	Gln	Phe	Asn	Ser	Ser	Leu	Glu	Asp	Pro	Ser	115	120	125
Thr	Asp	Tyr	Tyr	Gln	Glu	Leu	Gln	Arg	Asp	Ile	Ser	Glu	Met	Phe	Leu	130	135	140
Gln	Ile	Tyr	Lys	Gln	Gly	Gly	Phe	Leu	Gly	Leu	Ser	Asn	Ile	Lys	Phe	145	150	155
Arg	Pro	Gly	Ser	Val	Val	Val	Gln	Leu	Thr	Leu	Ala	Phe	Arg	Glu	Gly	165	170	175
Thr	Ile	Asn	Val	His	Asp	Val	Glu	Thr	Gln	Phe	Asn	Gln	Tyr	Lys	Thr	180	185	190
Glu	Ala	Ala	Ser	Arg	Tyr	Asn	Leu	Thr	Ile	Ser	Asp	Val	Ser	Val	Ser	195	200	205
Asp	Val	Pro	Phe	Pro	Phe	Ser	Ala	Gln	Ser	Gly	Ala	Gly	Val	Pro	Gly	210	215	220
Trp	Gly	Ile	Ala	Leu	Leu	Val	Leu	Val	Cys	Val	Leu	Val	Ala	Leu	Ala	225	230	235
Ile	Val	Tyr	Leu	Ile	Ala	Leu	Ala	Val	Cys	Gln	Cys	Arg	Arg	Lys	Asn	245	250	255
Tyr	Gly	Gln	Leu	Asp	Ile	Phe	Pro	Ala	Arg	Asp	Thr	Tyr	His	Pro	Met	260	265	270
Ser	Glu	Tyr	Pro	Thr	Tyr	His	Thr	His	Gly	Arg	Tyr	Val	Pro	Pro	Ser	275	280	285
Ser	Thr	Asp	Arg	Ser	Pro	Tyr	Glu	Lys	Val	Ser	Ala	Gly	Asn	Gly	Gly	290	295	300

808

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
 305 310 315 320

Leu

<210> 862

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 862

Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr
 1 5 10 15

Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys
 20 25 30

Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val
 35 40 45

Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val
 50 55 60

Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn
 65 70 75 80

Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn
 85 90 95

Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr
 100 105 110

Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr
 115 120 125

Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn
 130 135 140

Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala
 145 150 155 160

His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

809

	165		170		175
Ser His Asn Leu Ser Leu Val Ile Leu Val Pro Gln Asn Leu Lys His					
	180		185		190
Arg Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys Ala					
	195		200		205
Ile Met Glu Lys Leu Glu Met Ser Lys Phe Gln Pro Thr Leu Leu Thr					
	210		215		220
Leu Pro Arg Ile Lys Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met					
	225		230		235
Glu Lys Leu Glu Phe Phe Asp Phe Ser Tyr Asp Leu Asn Leu Cys Gly					
		245		250	255
Leu Thr Glu Asp Pro Asp Leu Gln Val Ser Ala Met Gln His Gln Thr					
	260		265		270
Val Leu Glu Leu Thr Glu Thr Gly Val Glu Ala Ala Ala Ala Ser Ala					
	275		280		285
Ile Ser Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe					
	290		295		300
Leu Phe Xaa Leu Trp Asp Gln Gln His Lys Phe Pro Val Phe Met Gly					
	305		310		315
					320
Arg Val Tyr Asp Pro Arg Ala					
	325				

<210> 863

<211> 86

<212> PRT

<213> Homo sapiens

<400> 863

Tyr Tyr Ile Val His Leu Lys Leu Thr Glu Arg Val Asn Leu Lys Cys					
1		5		10	15
Ser His His Thr Asn Pro Lys Val Thr Met Phe Ser Pro His Lys Pro					
	20		25		30
Lys Gly Asn Tyr Val Leu Ile S r Leu Ile Val Val Thr Ile Ser Gln					
	35		40		45
Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile					
	50		55		60

810

Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn
 65 70 75 80

Ser His Lys Ile Gln Ile
 85

<210> 864

<211> 130

<212> PRT

<213> Homo sapiens

<400> 864

Leu Thr Gln Gln Gln Gln Pro Ala Thr Gly Pro Gln Pro Ser Leu Gly
 1 5 10 15

Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
 20 25 30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser
 35 40 45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr
 50 55 60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser
 65 70 75 80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly
 85 90 95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly
 100 105 110

Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
 115 120 125

Lys Arg
 130

<210> 865

<211> 78

<212> PRT

<213> Homo sapiens

<400> 865

Ser Glu Trp Lys Ile Lys Gly Pro Ser Ser Pro Leu Ala S r Leu Pro

811

1 5 10 15
 Gly Arg Arg His Gly Gly Ser Ser Ala Thr Gly Ala Cys Gly Glu Ala
 20 25 30
 Met Ala Ala Ala Glu Gly Ser Ser Gly Pro Ala Gly Leu Thr Leu Gly
 35 40 45
 Arg Ser Phe Ser Asn Tyr Arg Pro Phe Glu Pro Gln Ala Leu Gly Leu
 50 55 60
 Ser Pro Ser Trp Arg Leu Thr Gly Phe Ser Gly Met Lys Gly
 65 70 75

<210> 866

<211> 529

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (517)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866

Pro Pro Pro Glu Pro Arg Ala Xaa Met Ala Glu Asn Pro Ser Leu Glu
 1 5 10 15
 Asn His Arg Ile Lys Ser Phe Lys Asn Lys Gly Arg Asp Val Glu Thr
 20 25 30
 Met Arg Arg His Arg Asn Glu Val Thr Val Glu Leu Arg Lys Asn Lys
 35 40 45
 Arg Asp Glu His Leu Leu Lys Lys Arg Asn Val Pro Gln Glu Glu Ser
 50 55 60
 Leu Glu Asp Ser Asp Val Asp Ala Asp Phe Lys Ala Gln Asn Val Thr
 65 70 75 80
 Leu Glu Ala Ile Leu Gln Asn Ala Thr Ser Asp Asn Pro Val Val Gln
 85 90 95
 Leu Ser Ala Val Gln Ala Ala Arg Lys Leu Leu Ser Ser Asp Arg Asn

100	105	110
Pro Pro Ile Asp Asp Leu Ile Lys Ser Gly Ile Leu Pro Ile Leu Val 115 120 125		
Lys Cys Leu Glu Arg Asp Asp Asn Pro Ser Leu Gln Phe Glu Ala Ala 130 135 140		
Trp Ala Leu Thr Asn Ile Ala Ser Gly Thr Ser Ala Gln Thr Gln Ala 145 150 155 160		
Val Val Gln Ser Asn Ala Val Pro Leu Phe Leu Arg Leu Leu Arg Ser 165 170 175		
Pro His Gln Asn Val Cys Glu Gln Ala Val Trp Ala Leu Gly Asn Ile 180 185 190		
Ile Gly Asp Gly Pro Gln Cys Arg Asp Tyr Val Ile Ser Leu Gly Val 195 200 205		
Val Lys Pro Leu Leu Ser Phe Ile Ser Pro Ser Ile Pro Ile Thr Phe 210 215 220		
Leu Arg Asn Val Thr Trp Val Ile Val Asn Leu Cys Arg Asn Lys Asp 225 230 235 240		
Pro Pro Pro Pro Met Glu Thr Val Gln Glu Ile Leu Pro Ala Leu Cys 245 250 255		
Val Leu Ile Tyr His Thr Asp Ile Asn Ile Leu Val Asp Thr Val Trp 260 265 270		
Ala Leu Ser Tyr Leu Thr Asp Gly Gly Asn Glu Gln Ile Gln Met Val 275 280 285		
Ile Asp Ser Gly Val Val Pro Phe Leu Val Pro Leu Leu Ser His Gln 290 295 300		
Glu Val Lys Val Gln Thr Ala Ala Leu Arg Ala Val Gly Asn Ile Val 305 310 315 320		
Thr Gly Thr Asp Glu Gln Thr Gln Val Val Leu Asn Cys Asp Val Leu 325 330 335		
Ser His Phe Pro Asn Leu Leu Ser His Pro Lys Glu Lys Ile Asn Lys 340 345 350		
Glu Ala Val Trp Phe Leu Ser Asn Ile Thr Ala Gly Asn Gln Gln Gln 355 360 365		
Val Gln Ala Val Ile Asp Ala Gly Leu Ile Pro Met Ile Ile His Gln		

813

370 375 380
 Leu Ala Lys Gly Asp Phe Gly Thr Gln Lys Glu Ala Ala Trp Ala Ile
 385 390 395 400
 Ser Asn Leu Thr Ile Ser Gly Arg Lys Asp Gln Val Glu Tyr Leu Val
 405 410 415
 Gln Gln Asn Val Ile Pro Pro Phe Cys Asn Leu Leu Ser Val Lys Asp
 420 425 430
 Ser Gln Val Val Gln Val Val Leu Asp Gly Leu Lys Asn Ile Leu Ile
 435 440 445
 Met Ala Gly Asp Glu Ala Ser Thr Ile Ala Glu Ile Ile Glu Glu Cys
 450 455 460
 Gly Gly Leu Glu Lys Ile Glu Val Leu Gln Gln His Glu Asn Glu Asp
 465 470 475 480
 Ile Tyr Lys Leu Ala Phe Glu Ile Ile Asp Gln Tyr Phe Ser Gly Asp
 485 490 495
 Asp Ile Asp Glu Asp Pro Cys Leu Ile Pro Glu Ala Thr Gln Gly Gly
 500 505 510
 Thr Tyr Asn Phe Xaa Pro Thr Ala Asn Leu Gln Thr Lys Glu Phe Asn
 515 520 525

Phe

<210> 867

<211> 237

<212> PRT

<213> Homo sapiens

<400> 867

Arg Pro Gly Pro Val Arg Arg Arg Gly Lys Val Glu Leu Ile Lys Phe
 1 5 10 15
 Val Arg Val Gln Trp Arg Arg Pro Gln Val Glu Trp Arg Arg Arg Arg
 20 25 30
 Trp Gly Pro Gly Pro Gly Ala Ser Met Ala Gly Ser Glu Glu Leu Gly
 35 40 45
 Leu Arg Glu Asp Thr Leu Arg Val Leu Ala Ala Phe Leu Arg Arg Gly
 50 55 60

814

Glu Ala Ala Gly Ser Pro Val Pro Thr Pro Pro Arg Ser Pro Ala Gln
65 70 75 80

Glu Glu Pro Thr Asp Phe Leu Ser Arg Leu Arg Arg Cys Leu Pro Cys
85 90 95

Ser Leu Gly Arg Gly Ala Ala Pro Ser Glu Ser Pro Arg Pro Cys Ser
100 105 110

Leu Pro Ile Arg Pro Cys Tyr Gly Leu Glu Pro Gly Pro Ala Thr Pro
115 120 125

Asp Phe Tyr Ala Leu Val Ala Gln Arg Leu Glu Gln Leu Val Gln Glu
130 135 140

Gln Leu Lys Ser Pro Pro Ser Pro Glu Leu Gln Gly Pro Pro Ser Thr
145 150 155 160

Glu Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu Glu
165 170 175

Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg Thr
180 185 190

Ser Trp Ser Ala Cys Pro Pro Thr Leu Ser Pro Ala Trp Trp Ser Cys
195 200 205

Ser Val Ala Gly Met Thr Ala Leu Ala Gln Ala Glu His Ala Pro Gly
210 215 220

Pro Arg Leu Leu Pro Arg Ser Pro Trp Pro Ala Trp Pro
225 230 235

<210> 868

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

815

<400> 868

Leu Ser Val Ser Ala Xaa Ala Ala Xaa Val Ala Ala Ala Ala Ile His
 1 5 10 15
 Ser Asp Ser Ala Ala Ala Pro Gly Gly Gly Gly Ala Ala Arg Asp Phe
 20 25 30
 Phe Phe Phe Gln Thr Asp Arg Gly Ala Ala Ala Asp Met Ser Thr Pro
 35 40 45
 Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu Asp Pro
 50 55 60
 Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met Gln Trp
 65 70 75 80
 Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp Gly Thr
 85 90 95
 Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys Pro Pro
 100 105 110
 Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr Ala Asp
 115 120 125
 Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro Thr Tyr
 130 135 140
 Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp Glu Pro
 145 150 155 160
 Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr Gln Glu
 165 170 175
 Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu Gln Ser
 180 185 190
 Trp Asn Asp Ser
 195

<210> 869

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869

Ala Asp Ala Trp Val Ala Xaa Ala Xaa Ala Ser Ser Gly Leu Val Val
 1 5 10 15

Ala Arg Pro Thr Ser Ala Val Pro Ala Glu Pro Arg Pro Phe Arg Pro
 20 25 30

Ser Pro Pro His Leu Ala Ala Met Arg Leu Arg Arg Leu Ala Leu Phe
 35 40 45

Pro Gly Val Ala Leu Leu Leu Ala Ala Ala Arg Leu Ala Ala Ala Ser
 50 55 60

Asp Val Leu Glu Leu Thr Asp Asp Asn Phe Glu Ser Arg Ile Ser Asp
 65 70 75 80

Thr Gly Ser Ala Gly Leu Met Leu Val Glu Phe Phe Ala Pro Trp Cys
 85 90 95

Gly His Cys Lys Arg Leu Ala Pro Glu Tyr Glu Ala Ala Ala Thr Arg
 100 105 110

Leu Lys Gly Ile Val Pro Leu Ala Lys Val Asp Cys Thr Ala Asn Thr
 115 120 125

Asn Thr Cys Asn Lys Tyr Gly Val Ser Gly Tyr Pro Thr Leu Lys Ile
 130 135 140

Phe Arg Asp Gly Glu Glu Ala Gly Ala Tyr Asp Gly Pro Arg Thr Ala
 145 150 155 160

Asp Gly Ile Val Ser His Leu Lys Lys Gln Ala Gly Pro Ala Ser Val
 165 170 175

Pro Leu Arg Thr Glu Glu Glu Phe Lys Lys Phe Ile Ser Asp Lys Asp
 180 185 190

Ala Ser Ile Val Gly Phe Phe Asp Asp Ser Phe Ser Glu Ala His Ser
 195 200 205

Glu Phe Leu Lys Ala Ala Ser Asn Leu Arg Asp Asn Tyr Arg Phe Ala
 210 215 220

His Thr Asn Val Glu Ser Leu Val Asn Glu Tyr Asp Asp Asn Gly Glu
 225 230 235 240

817

Gly Ile Ile Leu Phe Arg Pro Ser His Leu Thr Asn Lys Phe Glu Asp
 245 250 255
 Lys Thr Val Ala Tyr Thr Glu Gln Lys Met Thr Ser Gly Lys Ile Lys
 260 265 270
 Lys Phe Ile Gln Glu Asn Ile Phe Gly Ile Cys Pro His Met Thr Glu
 275 280 285
 Asp Asn Lys Asp Leu Ile Gln Gly Lys Asp Leu Leu Ile Ala Tyr Tyr
 290 295 300
 Asp Val Asp Tyr Glu Lys Asn Ala Lys Gly Ser Asn Tyr Trp Arg Asn
 305 310 315 320
 Arg Val Met Met Val Ala Lys Lys Phe Leu Asp Ala Gly His Lys Leu
 325 330 335
 Asn Phe Ala Val Ala Ser Arg Lys Thr Phe Ser His Glu Leu Ser Asp
 340 345 350
 Phe Gly Leu Glu Ser Thr Ala Gly Glu Ile Pro Val Val Ala Ile Arg
 355 360 365
 Thr Ala Lys Gly Glu Lys Phe Val Met Gln Glu Glu Phe Ser Arg Asp
 370 375 380
 Gly Lys Ala Leu Glu Arg Phe Leu Gln Asp Tyr Phe Asp Gly Asn Leu
 385 390 395 400
 Lys Arg Tyr Leu Lys Ser Glu Pro Ile Pro Glu Ser Asn Asp Gly Pro
 405 410 415
 Val Lys Val Val Val Ala Glu Asn Phe Asp Glu Ile Val Asn Asn Glu
 420 425 430
 Asn Lys Asp Val Leu Ile Glu Phe Tyr Ala Pro Trp Cys Gly His Cys
 435 440 445
 Lys Asn Leu Glu Pro Lys Tyr Lys Glu Leu Gly Glu Lys Leu Ser Lys
 450 455 460
 Asp Pro Asn Ile Val Ile Ala Lys Met Asp Ala Thr Ala Asn Asp Val
 465 470 475 480
 Pro Ser Pro Tyr Glu Val Arg Gly Phe Pro Thr Il Tyr Phe Ser Pro
 485 490 495
 Ala Asn Lys Lys Leu Asn Pro Lys Lys Tyr Glu Gly Gly Arg Glu Leu
 500 505 510


```
<210> 870
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 870
Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
1 5 10 15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
20 25 30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
35 40 45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly
50 55 60

Asp	Arg	Cys	Ser	Ser	Arg	Cys	Pro	Gln	Asn	Arg	Leu	Gln	Asp	Cys	Met
65					70					75					80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro
85 90 95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu
100 105 110

819

<210> 871
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 871
 Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
 1 5 10 15
 Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
 20 25 30
 Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
 35 40 45
 Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
 50 55 60
 Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
 65 70 75 80
 Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
 85 90 95
 Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
 100 105 110
 Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
 115 120

<210> 872
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 872
 Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
 1 5 10 15
 Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
 20 25 30
 Lys Ile Val
 35

<210> 873
 <211> 420

820

<212> PRT

<213> Homo sapiens

<400> 873

```

Val Cys Leu Gln Leu Cys Gln Ser Thr Val Ser Cys Pro Leu Gly Tyr
  1              5              10              15

Leu Ala Ser Thr Ala Thr Asn Asp Cys Gly Cys Thr Thr Thr Thr Cys
      20              25              30

Leu Pro Asp Lys Val Cys Val His Arg Ser Thr Ile Tyr Pro Val Gly
      35              40              45

Gln Phe Trp Glu Glu Gly Cys Asp Val Cys Thr Cys Thr Asp Met Glu
      50              55              60

Asp Ala Val Met Gly Leu Arg Val Ala Gln Cys Ser Gln Lys Pro Cys
      65              70              75              80

Glu Asp Ser Cys Arg Ser Gly Phe Thr Tyr Val Leu His Glu Gly Glu
      85              90              95

Cys Cys Gly Arg Cys Leu Pro Ser Ala Cys Glu Val Val Thr Gly Ser
      100              105              110

Pro Arg Gly Asp Ser Gln Ser Ser Trp Lys Ser Val Gly Ser Gln Trp
      115              120              125

Ala Ser Pro Glu Asn Pro Cys Leu Ile Asn Glu Cys Val Arg Val Lys
      130              135              140

Glu Glu Val Phe Ile Gln Gln Arg Asn Val Ser Cys Pro Gln Leu Glu
      145              150              155              160

Val Pro Val Cys Pro Ser Gly Phe Gln Leu Ser Cys Lys Thr Ser Ala
      165              170              175

Cys Cys Pro Ser Cys Arg Cys Glu Arg Met Glu Ala Cys Met Leu Asn
      180              185              190

Gly Thr Val Ile Gly Pro Gly Lys Thr Val Met Ile Asp Val Cys Thr
      195              200              205

Thr Cys Arg Cys Met Val Gln Val Gly Val Ile Ser Gly Phe Lys Leu
      210              215              220

Glu Cys Arg Lys Thr Thr Cys Asn Pro Cys Pro Leu Gly Tyr Lys Glu
      225              230              235              240

Glu Asn Asn Thr Gly Glu Cys Cys Gly Arg Cys Leu Pro Thr Ala Cys
      245              250              255

```

821

Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu
260 265 270

Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg
275 280 285

Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp
290 295 300

Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly
305 310 315 320

Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala
325 330 335

Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val
340 345 350

Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser
355 360 365

Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr
370 375 380

Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val
385 390 395 400

Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg
405 410 415

Lys Cys Ser Lys
420

<210> 874

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

822

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874

Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly Gly
 1 5 10 15

Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
 20 25 30

Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln
 35 40 45

Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
 50 55 60

Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
 65 70 75 80

Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Gly Met Ala Asn Gly Asp
 85 90 95

Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
 100 105 110

Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
 115 120 125

Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
 130 135 140

Ser Lys Ser Val Gly Ser Leu
 145 150

<210> 875

<211> 95

<212> PRT

<213> Homo sapiens

<400> 875

Ala Leu Asn Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln
 1 5 10 15

Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
 20 25 30

Arg Leu Cys Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met

823

35					40					45					
Pro	Gly	Gly	Cys	Thr	Thr	Ile	Pro	Glu	Ser	Asp	Leu	Glu	Glu	Arg	Ser
50					55					60					
Val	Glu	Gln	Asp	Ser	Thr	Glu	Leu	Phe	Thr	Asn	His	Arg	His	Leu	Thr
65					70					75					80
Ala	Glu	Thr	Pro	Arg	Pro	Val	Ser	Pro	Leu	Gln	Gly	Val	Ser	Glu	
85					90					95					

```
<210> 876
<211> 238
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (15)--
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 876
Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe
 1             5             10             15

Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr
                20             25             30

Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala
      35             40             45

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe
 50             55             60

```

824

Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly
 65 70 75 80
 Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe Thr Leu Ala Lys
 85 90 95
 Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr Leu Asp Glu Lys Asp Pro
 100 105 110
 Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg Leu Val Arg Ile
 115 120 125
 Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr Ile Leu Gly Leu
 130 135 140
 Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu Gln Thr Gln Val Phe Lys
 145 150 155 160
 Leu Gly Leu Ala Lys Ser Ile His His Ala Arg Val Leu Ile Arg Gln
 165 170 175
 Arg His Ile Arg Val Arg Lys Gln Val Val Asn Ile Pro Ser Phe Ile
 180 185 190
 Val Arg Leu Asp Ser Gln Lys His Ile Asp Phe Ser Leu Arg Ser Pro
 195 200 205
 Tyr Gly Gly Gly Arg Pro Gly Arg Val Lys Arg Lys Asn Ala Lys Lys
 210 215 220
 Gly Gln Gly Gly Ala Gly Ala Gly Asp Asp Glu Glu Glu Asp
 225 230 235

<210> 877

<211> 79

<212> PRT

<213> Homo sapiens

<400> 877

Ala Gly Ile Arg His Glu Pro Ser Ala Ala Ala Met Ser Ser Gly Ala
 1 5 10 15
 Ser Ala Ser Ala Leu Gln Arg Leu Val Glu Gln Leu Lys Leu Glu Ala
 20 25 30
 Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln
 35 40 45
 Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro

825

50

55

60

Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu
 65 70 75

<210> 878

<211> 136

<212> PRT

<213> Homo sapiens

<400> 878

Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1 5 10 15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
 20 25 30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
 35 40 45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
 50 55 60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
 65 70 75 80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
 85 90 95

His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu
 100 105 110

Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val
 115 120 125

Gly Ala Gly Lys Lys Pro Lys Glu
 130 135

<210> 879

<211> 141

<212> PRT

<213> Homo sapiens

<400> 879

Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala
 1 5 10 15

826

Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
20 25 30

Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
35 40 45

Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
50 55 60

Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu Ala Asn
65 70 75 80

Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
85 90 95

Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
100 105 110

Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
115 120 125

Glu Glu Ser Asp Asp Asp Met Gly Phe Gly Leu Phe Asp
130 135 140

<210> 880

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

827

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880

Ser Ala Gly Ala His Ala His Gly Ala Arg Glu Leu Ala Xaa Phe Leu
1 5 10 15

Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
20 25 30

Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
35 40 45

Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
50 55 60

Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
65 70 75 80

Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
85 90 95

Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
100 105 110

Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
115 120 125

Leu Xaa Xaa Cys Pro
130

<210> 881

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

828

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881

Ile	Glu	Glu	Pro	Arg	Asp	Thr	Arg	Leu	Gln	Val	Cys	Ser	Xaa	Val	His
1				5					10					15	

Ile	Trp	Cys	Leu	Asp	Lys	Phe	Lys	Met	Arg	Lys	His	Arg	His	Leu	Pro
		20						25					30		

Leu	Val	Ala	Val	Phe	Cys	Leu	Phe	Leu	Ser	Gly	Phe	Pro	Thr	Thr	His
		35					40					45			

Ala	Gln	Gln	Gln	Gln	Ala	Val	Ile	Glu	Val	Asn	Lys	Arg	Asp	Ile	Val
		50				55					60				

Phe	Leu	Val	Asp	Gly	Ser	Ser	Ala	Leu	Gly	Leu	Ala	Asn	Phe	Asn	Ala
65					70					75				80	

Ile	Arg	Asp	Phe	Ile	Ala	Lys	Val	Ile	Gln	Arg	Leu	Glu	Ile	Gly	Gln
			85						90					95	

Asp	Leu	Ile	Gln	Val	Ala	Val	Ala	Gln	Tyr	Ala	Asp	Thr	Val	Arg	Pro
		100						105					110		

Glu	Phe	Tyr	Phe	Asn	Thr	His	Pro	Thr	Lys	Arg	Xaa	Val	Ile	Thr	Ala
		115					120					125			

Val	Arg	Lys	Met	Lys	Pro	Leu	Xaa	Gly	Ser	Ala	Leu	Tyr	Thr	Gly	Ser
	130					135					140				

Ala	Leu	Asp	Phe	Val	Arg	Asn	Asn	Leu	Phe	Thr	Ser	Ser	Ala	Gly	Tyr
145					150					155					160

Arg	Ala	Ala	Glu	Gly	Ile	Pro	Lys	Leu	Leu	Xaa	Leu	Ile	Thr	Gly	Gly
			165					170						175	

Lys	Ser	Leu	Asp	Glu	Ile	Ser	Gln	Pro	Ala	Gln	Glu	Leu	Lys	Arg	Ser
		180					185						190		

Ser	Ile	Met	Ala	Phe	Ala	Ile	Gly	Asn	Lys	Gly	Ala	Asp	Gln	Ala	Glu
		195					200					205			

Leu	Glu	Glu	Ile	Ala	Phe	Asp	Ser	Ser	Leu	Val	Phe	Ile	Pro	Ala	Glu
	210					215						220			

829

Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
225 230 235 240

Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
245 250 255

Ile Ile Phe Leu
260

<210> 882
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

830

<400> 882

Xaa Xaa Glu Ser Glu Xaa Ser Phe Xaa Cys Arg Lys Xaa Ile Ile Xaa
 1 5 10 15
 Phe Leu Xaa Tyr Lys Arg Val Val Phe Leu Lys Gln Leu Ala Ser Gly
 20 25 30
 Leu Leu Leu Val Thr Gly Pro Leu Val Leu Asn Arg Val Pro Leu Arg
 35 40 45
 Arg Thr His Gln Lys Phe Val Ile Ala Thr Ser Thr Lys Ile Asp Ile
 50 55 60
 Ser Asn Val Lys Ile Pro Lys His Leu Thr Asp Ala Tyr Phe Lys Lys
 65 70 75 80
 Lys Lys Leu Arg Lys Pro Arg His Gln Glu Gly Glu Ile Phe Asp Thr
 85 90 95
 Glu Lys Glu Lys Tyr Glu Ile Thr Glu Gln Arg Lys Ile Asp Gln Lys
 100 105 110
 Ala Val Asp Ser Gln Ile Leu Pro Lys Ile Lys Ala Ile Pro Gln Leu
 115 120 125
 Gln Gly Tyr Leu Arg Ser Val Phe Ala Leu Thr Asn Gly Ile Tyr Pro
 130 135 140
 His Lys Leu Val Phe
 145

<210> 883

<211> 256

<212> PRT

<213> Homo sapiens

<400> 883

Trp Lys Ser Val Val Val Leu Ala Val Ser Ala Gly Ala Gly Ser Ala
 1 5 10 15
 His Pro Arg Gln Asn Lys Tyr Ser Val Leu Leu Pro Thr Tyr Asn Glu
 20 25 30
 Arg Glu Asn Leu Pro Leu Ile Val Trp Leu Leu Val Lys Ser Phe Ser
 35 40 45
 Glu Ser Gly Ile Asn Tyr Glu Ile Ile Ile Ile Asp Asp Gly Ser Pro
 50 55 60

831

Asp Gly Thr Arg Asp Val Ala Glu Gln Leu Glu Lys Ile Tyr Gly Ser
 65 70 75 80
 Asp Arg Ile Leu Leu Arg Pro Arg Glu Lys Lys Leu Gly Leu Gly Thr
 85 90 95
 Ala Tyr Ile His Gly Met Lys His Ala Thr Gly Asn Tyr Ile Ile Ile
 100 105 110
 Met Asp Ala Asp Leu Ser His His Pro Lys Phe Ile Pro Glu Phe Ile
 115 120 125
 Arg Lys Gln Lys Glu Gly Asn Phe Asp Ile Val Ser Gly Thr Arg Tyr
 130 135 140
 Lys Gly Asn Gly Gly Val Tyr Gly Trp Asp Leu Lys Arg Lys Ile Ile
 145 150 155 160
 Ser Arg Gly Ala Asn Phe Leu Thr Gln Ile Leu Leu Arg Pro Gly Ala
 165 170 175
 Ser Asp Leu Thr Gly Ser Phe Arg Leu Tyr Arg Lys Glu Val Leu Glu
 180 185 190
 Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
 195 200 205
 Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Pro
 210 215 220
 Ile Ser Phe Val Asp Arg Val Tyr Gly Glu Ser Lys Leu Gly Gly Asn
 225 230 235 240
 Glu Ile Val Ser Phe Leu Lys Gly Leu Leu Thr Leu Phe Ala Thr Thr
 245 250 255

<210> 884

<211> 449

<212> PRT

<213> Homo sapiens

<400> 884

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
 1 5 10 15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
 20 25 30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
 35 40 45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
 50 55 60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
 65 70 75 80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
 85 90 95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
 100 105 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
 115 120 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
 130 135 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
 145 150 155 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
 165 170 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
 180 185 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
 195 200 205

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
 210 215 220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
 225 230 235 240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
 245 250 255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
 260 265 270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
 275 280 285

833

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
 290 295 300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
 305 310 315 320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
 325 330 335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
 340 345 350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
 355 360 365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
 370 375 380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
 385 390 395 400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
 405 410 415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
 420 425 430

Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe
 435 440 445

Leu

<210> 885

<211> 64

<212> PRT

<213> Homo sapiens

<400> 885

Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu
 20 25 30

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys
 35 40 45

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser

834

50

55

60

<210> 886

<211> 132

<212> PRT

<213> Homo sapiens

<400> 886

```

Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
  1              5              10              15

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
      20              25              30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
      35              40              45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
      50              55              60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
      65              70              75              80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala
      85              90              95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
      100              105              110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu
      115              120              125

Lys Asn Val Asn
      130

```

<210> 887

<211> 70

<212> PRT

<213> Homo sapiens

<400> 887

```

Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
  1              5              10              15

```

835

Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val
 20 25 30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu
 35 40 45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn
 50 55 60

Cys Arg Thr Trp Pro His
 65 70

<210> 888

<211> 373

<212> PRT

<213> Homo sapiens

<400> 888

Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu
 1 5 10 15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser
 20 25 30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr
 35 40 45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser
 50 55 60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys
 65 70 75 80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu
 85 90 95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu
 100 105 110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr
 115 120 125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln
 130 135 140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp
 145 150 155 160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

836

165	170	175
Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu Lys Arg Asp Leu Ala		
180	185	190
Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe Arg Asn Ala Leu Leu		
195	200	205
Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe Gly Val Asn Glu Asp		
210	215	220
Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu Ala Gly Glu Arg Arg		
225	230	235
Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile Leu Thr Thr Arg Ser		
245	250	255
Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr Thr Lys Tyr Ser Lys		
260	265	270
His Asp Met Asn Lys Val Leu Asp Leu Glu Leu Lys Gly Asp Ile Glu		
275	280	285
Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr Ser Lys Pro Ala Phe		
290	295	300
Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly Val Gly Thr Arg His		
305	310	315
Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser Glu Ile Asp Met Asn		
325	330	335
Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly Ile Ser Leu Cys Gln		
340	345	350
Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu Lys Ile Leu Val Ala		
355	360	365
Leu Cys Gly Gly Asn		
370		

<210> 889

<211> 336

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889

Gly	Arg	Lys	Lys	His	Leu	Xaa	Ala	Arg	Leu	Val	Thr	Glu	Met	Asp	Ser
1				5					10					15	

Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met	Pro	Val	Leu
		20						25					30		

Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser	Lys	Ala	Leu
	35						40					45			

Glu	Ala	Xaa	Lys	Leu	Ala	Ile	Glu	Ala	Gly	Phe	Xaa	His	Ile	Asp	Ser
	50					55					60				

Ala	His	Xaa	Tyr	Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu	Ala	Ile	Arg	Ser
65					70					75					80

Lys	Ile	Ala	Asp	Gly	Ser	Val	Lys	Arg	Glu	Asp	Ile	Phe	Tyr	Thr	Ser
			85						90					95	

Lys	Leu	Trp	Xaa	Asn	Ser	His	Arg	Pro	Glu	Leu	Val	Arg	Pro	Ala	Leu
		100						105						110	

Glu	Arg	Ser	Leu	Lys	Asn	Leu	Gln	Leu	Asp	Tyr	Val	Asp	Leu	Tyr	Leu
		115					120						125		

838

Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys
 130 135 140

Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr
 145 150 155 160

Trp Glu Ala Val Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile
 165 170 175

Gly Val Ser Asn Phe Asn Xaa Arg Gln Leu Glu Met Ile Leu Asn Lys
 180 185 190

Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro
 195 200 205

Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile
 210 215 220

Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp
 225 230 235 240

Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala
 245 250 255

Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr
 260 265 270

Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln
 275 280 285

Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu
 290 295 300

Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr
 305 310 315 320

Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
 325 330 335

<210> 890

<211> 195

<212> PRT

<213> Homo sapiens

<400> 890

839

Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
 1 5 10 15
 Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
 20 25 30
 Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
 35 40 45
 Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
 50 55 60
 Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
 65 70 75 80
 Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
 85 90 95
 Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
 100 105 110
 Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
 115 120 125
 Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
 130 135 140
 Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
 145 150 155 160
 Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
 165 170 175
 His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
 180 185 190
 Ala Lys Glu
 195

<210> 891

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

840

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891

Ser Ala Gly Leu Thr Gly Arg Ile Ala Phe Ala Ala Ala Arg Pro Gln
 1 5 10 15

Thr Phe Val Pro Gly Pro Ser Ser Pro Pro Pro Pro Pro Pro Pro Arg
 20 25 30

Pro Ala Glu Leu Ala Pro Ser Pro Pro Ala Asp Met Ser Glu Ser Lys
 35 40 45

Ser Gly Pro Glu Tyr Ala Ser Phe Phe Ala Val Met Gly Ala Ser Ala
 50 55 60

Ala Met Val Phe Ser Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser
 65 70 75 80

Gly Thr Gly Ile Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met
 85 90 95

Lys Ser Ile Ile Pro Val Val Met Ala Gly Ile Xaa Xaa Ile Tyr Gly
 100 105 110

Leu Val Val Ala Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser
 115 120 125

Leu Tyr Lys Ser Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu
 130 135 140

Ser Gly Leu Ala Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly
 145 150 155 160

Val Arg Gly Asn Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu
 165 170 175

Ile Leu Ile Phe Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala
 180 185 190

Leu Ile Leu Ser Thr Lys
 195

<210> 892

<211> 95

<212> PRT

<213> Homo sapiens

841

<400> 892

Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
1 5 10 15
Pro His Arg Arg His Thr Ala Ala Ala Ser Val Met Pro Lys His Glu
20 25 30
Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
35 40 45
Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
50 55 60
Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
65 70 75 80
Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
85 90 95

<210> 893

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 893

Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
1 5 10 15
Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
20 25 30
Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
35 40 45
Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
50 55 60
Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

842

65 70 75 80
 Leu Ile Val Ile Pro Val Arg Val His Phe Ile Phe Met Leu Phe Gln
 85 90 95
 Pro Cys Ile Asn Ile His Leu Thr Lys Ile Thr Gln Leu Ile Xaa Lys
 100 105 110
 Lys Lys Lys Asn Xaa Gly Gly Gly Pro Gly Thr
 115 120

<210> 894
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 894
 Gln Phe Val Tyr Cys Gly Lys Lys Ala Gln Leu Asn Ile Gly Asn Val
 1 5 10 15
 Leu Pro Val Gly Thr Met Pro Glu Gly Thr Ile Val Cys Cys Leu Glu
 20 25 30
 Glu Lys Pro Gly Asp Arg Gly Lys Leu Ala Arg Ala Ser Gly Asn Tyr
 35 40 45
 Ala Thr Val Ile Ser His Asn Pro Glu Thr Lys Lys Thr Arg Val Lys
 50 55 60
 Leu Pro Ser Gly Ser Lys Lys Val Ile Ser Ser Ala Asn Arg Ala Val
 65 70 75 80
 Val Gly Val Val Ala Gly Gly Gly Arg Ile Asp Lys Pro Ile Leu Lys
 85 90 95
 Ala Gly Arg Ala Tyr His Lys Tyr Lys Ala Lys Arg Asn Cys Trp Pro
 100 105 110
 Arg Val Arg Gly Val Ala Met Asn Pro Val Glu His Pro Phe Gly Gly
 115 120 125
 Gly Asn His Gln His Ile Gly Lys Pro Ser Thr Ile Arg Arg Asp Ala
 130 135 140
 Pro Ala Gly Arg Lys Val Gly Leu Ile Ala Ala Arg Arg Thr Gly Arg
 145 150 155 160
 Leu Arg Gly Thr Lys Thr Val Gln Glu Lys Glu Asn
 165 170

843

<210> 895

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 895

Asn	Arg	Glu	Gly	Ser	Lys	Gly	Val	Glu	Thr	Arg	Arg	Val	Leu	Val	Gly
1				5					10					15	

Glu	Gln	Gln	Gln	Cys	Xaa	Asp	Ala	Lys	Ser	Gln	Gln	Lys	Glu	Gln	Met
			20					25					30		

Leu	Leu	Leu	Glu	Xaa	Lys	Ser	Ala	Ala	Tyr	Ser	Gln	Val	Leu	Leu	Arg
		35					40					45			

Cys	Leu	Thr	Leu	Leu	Gln	Arg	Leu	Leu	Gln	Glu	His	Arg	Leu	Lys	Thr
	50					55					60				

Gln	Ser	Glu	Leu	Asp	Arg	Ile	Asn	Ala	Gln	Tyr	Leu	Glu	Val	Lys	Cys
65					70					75					80

Gly	Ala	Met	Ile	Leu	Lys	Leu	Arg	Met	Glu	Glu	Leu	Lys	Ile	Leu	Ser
				85					90					95	

Asp	Thr	Tyr	Thr	Val	Glu	Lys	Val	Glu	Val	His	Arg	Leu	Ile	Arg	Asp
			100					105					110		

Arg	Leu	Glu	Gly	Ala	Ile	His	Leu	Gln	Glu	Gln	Asp	Met	Glu	Asn	Ser
	115						120					125			

Arg	Gln	Val	Leu	Asn	Ser	Tyr	Glu	Val	Leu	Gly	Glu	Glu	Phe	Asp	Arg
	130					135					140				

Leu	Val	Lys	Glu	Tyr	Thr	Val	Leu	Lys	Gln	Ala	Thr	Glu	Asn	Lys	Arg
145					150					155					160

Trp	Ala	Leu	Gln	Glu	Ph	Ser	Lys	Val	Tyr	Arg
			165						170	

844

<210> 896

<211> 99

<212> PRT

<213> Homo sapiens

<400> 896

```

Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
 1             5             10             15

Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
          20             25             30

Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
          35             40             45

Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
          50             55             60

Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
 65             70             75             80

Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
          85             90             95

Asp His Ser

```

<210> 897

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897

```

Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1             5             10             15

Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
          20             25             30

Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
          35             40             45

```

845

Asp His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr
 . 50 55 60
 Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys
 65 70 75 80
 Thr Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg
 85 90 95
 Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
 100 105 110
 Lys Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu
 115 120 125
 Glu Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala
 130 135 140
 Ser Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser
 145 150 155 160
 Leu Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile
 165 170 175
 Asn Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile
 180 185 190
 Ile Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala
 195 200 205
 Lys Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile
 210 215 220
 Asp Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly
 225 230 235 240
 Thr Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Xaa Pro
 245 250 255
 Thr Ser Arg Lys Tyr Leu Ile Gly Thr Arg Val Thr Ala Leu Met Thr
 260 265 270
 Cys Trp Lys Ala Ser Gly Lys Arg Leu Lys Glu Thr Trp Lys Met Leu
 275 280 285
 Ser

846

<210> 898

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 898

Asn Pro Arg Gly Lys Val Ala Gly Phe Asp Leu Asp Gly Thr Leu Ile
 1 5 10 15

Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
 20 25 30

Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
 35 40 45

Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
 50 55 60

Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
 65 70 75 80

Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
 85 90 95

Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
 100 105 110

Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
 115 120 125

Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Lys Asp
 130 135 140

Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
 145 150 155 160

Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
 165 170 175

Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
 180 185 190

Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
 195 200 205

Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr

847

210

215

220

Ser Cys Arg Pro Asp Met Ser Thr
225 230

<210> 899

<211> 218

<212> PRT

<213> Homo sapiens

<400> 899

Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro
1 5 10 15

Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val
20 25 30

Thr Val Gly Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val
35 40 45

Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met
50 55 60

Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys
65 70 75 80

His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val
85 90 95

Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe
100 105 110

His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe
115 120 125

Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly
130 135 140

Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val
145 150 155 160

Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro
165 170 175

Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Gln Arg Lys Glu Lys Thr
180 185 190

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro
195 200 205

848

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly
210 215

<210> 900

<211> 152

<212> PRT

<213> Homo sapiens

<400> 900

Ser Lys Arg Gly His Val Pro Trp Gly Leu Glu Glu Ile Leu Asp Val
1 5 10 15

Ile Glu Pro Ser Gln Phe Val Lys Ile Gln Glu Pro Leu Phe Lys Gln
20 25 30

Ile Ala Lys Cys Val Ser Ser Pro His Phe Gln Val Ala Glu Arg Ala
35 40 45

Leu Tyr Tyr Trp Asn Asn Glu Tyr Ile Met Ser Leu Ile Glu Glu Asn
50 55 60

Ser Asn Val Ile Leu Pro Ile Met Phe Ser Ser Leu Tyr Arg Ile Ser
65 70 75 80

Lys Glu His Trp Asn Pro Ala Ile Val Ala Leu Val Tyr Asn Val Leu
85 90 95

Lys Ala Phe Met Glu Met Asn Ser Thr Met Phe Asp Glu Leu Thr Ala
100 105 110

Thr Tyr Lys Ser Asp Arg Gln Arg Glu Lys Lys Lys Glu Lys Glu Arg
115 120 125

Glu Glu Leu Trp Lys Lys Leu Glu Asp Leu Glu Leu Lys Arg Gly Leu
130 135 140

Arg Arg Asp Gly Ile Ile Pro Thr
145 150

<210> 901

<211> 261

<212> PRT

<213> Homo sapiens

<400> 901

Gly Leu Arg Glu Ile Ser Gly Arg Leu Ala Glu Met Pro Ala Asp Ser

849

1	5	10	15
Gly Tyr Pro Ala Tyr Leu Gly Ala Arg Leu Ala Ser Phe Tyr Glu Arg	20	25	30
Ala Gly Arg Val Lys Cys Leu Gly Asn Pro Glu Arg Glu Gly Ser Val	35	40	45
Ser Ile Val Gly Ala Val Ser Pro Pro Gly Gly Asp Phe Ser Asp Pro	50	55	60
Val Thr Ser Ala Thr Leu Gly Ile Val Gln Val Phe Trp Gly Leu Asp	65	70	75
Lys Lys Leu Ala Gln Arg Lys His Phe Pro Ser Val Asn Trp Leu Ile	85	90	95
Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His	100	105	110
Phe Thr Glu Phe Val Pro Leu Arg Thr Lys Ala Lys Glu Ile Leu Gln	115	120	125
Glu Glu Glu Asp Leu Ala Glu Ile Val Gln Leu Val Gly Lys Ala Ser	130	135	140
Leu Ala Glu Thr Asp Lys Ile Thr Leu Glu Val Ala Lys Leu Ile Lys	145	150	155
Asp Asp Phe Leu Gln Gln Asn Gly Tyr Thr Pro Tyr Asp Arg Phe Cys	165	170	175
Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Asn Met Ile Ala Phe Tyr	180	185	190
Asp Met Ala Arg Arg Val Phe Glu Thr Thr Ala Gln Ser Asp Asn Lys	195	200	205
Ile Thr Trp Ser Ile Ile Arg Glu His Met Gly Asp Ile Leu Tyr Lys	210	215	220
Leu Ser Ser Met Lys Phe Lys Asp Pro Leu Lys Asp Gly Glu Ala Lys	225	230	235
Ile Lys Ser Asp Tyr Ala Gln Leu Leu Glu Asp Met Gln Asn Ala Phe	245	250	255
Arg Ser Leu Glu Asp	260		

850

<210> 902
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 902
 Phe Pro Gly Arg Pro Thr Arg Pro Arg Gly Ile Ser Val Ser Gly Gly
 1 5 10 15
 Glu Ala Val Cys Pro Val Gln Trp Arg Leu Arg Lys Leu Ala Ala Ala
 20 25 30
 Xaa Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr Arg Leu
 35 40 45
 Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu Val Ile
 50 55 60
 His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His Pro Gly
 65 70 75 80
 Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser Glu Ser
 85 90 95
 Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu Lys Gln
 100 105 110
 Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu Ser Gly
 115 120 125
 Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp Ala Tyr
 130 135 140
 Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu Tyr Arg
 145 150 155 160
 Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
 165

<210> 903
 <211> 53
 <212> PRT
 <213> Homo sapiens

851

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 903
Pro Leu Cys Leu Ala Lys Asn Lys Asn Phe Leu Ile Leu Arg Xaa Asn
1 5 10 15
Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
20 25 30
Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
35 40 45
Val Val Leu Trp Ser
50

<210> 904
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904
Arg Arg Xaa Ala Xaa Pro Arg Val Arg Trp Lys Ile Cys Gly Leu Ser
1 5 10 15
Pro Thr Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn

852

20	25	30
Ala Pro Ile Xaa Gln Gly Gly Arg Gly Ala Ile Gln Phe Val Thr Gln		
35	40	45
Tyr Gln His Ser Ser Gly Gln Arg Arg Ile Arg Val Thr Thr Ile Ala		
50	55	60
Arg Asn Trp Ala Asp Ala Gln Thr Gln Ile Gln Asn Ile Ala Ala Ser		
65	70	75
Phe Asp Gln Glu Ala Ala Ala Ile Leu Met Ala Arg Leu Ala Ile Tyr		
85	90	95
Arg Ala Glu Thr Glu Glu Gly Pro Asp Val Leu Arg Trp Leu Asp Arg		
100	105	110
Gln Leu Ile Arg Leu Cys Gln Lys Phe Gly Glu Tyr His Lys Asp Asp		
115	120	125
Pro Ser Ser Phe Arg Phe Ser Glu Thr Phe Ser Leu Tyr Pro Gln Phe		
130	135	140
Met Phe His Leu Arg Arg Ser Ser Phe Leu Gln Val Phe Asn Asn Ser		
145	150	155
Pro Asp Glu Ser Ser Tyr Tyr Arg His His Phe Met Arg Gln Asp Leu		
165	170	175
Thr Gln Ser Leu Ile Met Ile Gln Pro Ile Leu Tyr Ala Tyr Ser Phe		
180	185	190
Ser Gly Pro Pro Glu Pro Val Leu Leu Asp Ser Ser Ser Ile Leu Ala		
195	200	205
Asp Arg Ile Leu Leu Met Asp Thr Phe Phe Gln Ile Leu Ile Tyr His		
210	215	220
Gly Glu Thr Ile Ala Gln Trp Arg Lys Ser Gly Tyr Gln Asp Met Pro		
225	230	235
Glu Tyr Glu Asn Phe Arg His Leu Leu Gln Ala Pro Val Asp Asp Ala		
245	250	255
Gln Glu Ile Leu His Ser Arg Phe Pro Met Pro Arg Tyr Ile Asp Thr		
260	265	270
Glu His Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Val Asn Pro		
275	280	285
Ser Gln Thr His Asn Asn Met Tyr Ala Trp Gly Gln Glu Ser Gly Ala		

853

290

295

300

Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu
 305 310 315 320

Lys Lys Leu Ala Val Ser Ser Ala Ala
 325

<210> 905

<211> 264

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 905

Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe
 1 5 10 15

Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu
 20 25 30

Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa
 35 40 45

Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg
 50 55 60

Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val
 65 70 75 80

Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu
 85 90 95

Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp
 100 105 110

Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile
 115 120 125

Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala
 130 135 140

Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly
 145 150 155 160

854

Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
 165 170 175

His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
 180 185 190

Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
 195 200 205

Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
 210 215 220

Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
 225 230 235 240

Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Gly Asp Tyr
 245 250 255

Leu Lys Lys Pro Gly Gly Gly
 260

<210> 906

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 906

Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
 1 5 10 15

Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
 20 25 30

Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser

855

35 40 45

Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro
50 55 60

Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala
65 70 75 80

Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln
85 90 95

Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His
100 105 110

Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala
115 120 125

Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln
130 135 140

Pro Ala Gln Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu
145 150 155 160

Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn
165 170 175

Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala
180 185

<210> 907

<211> 638

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (427)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907

Tyr Val Gln Gly Tyr Ser Leu Ser Gln Ala Asp Val Asp Ala Phe Arg
 1 5 10 15

Gln Leu Ser Ala Pro Pro Ala Asp Pro Gln Leu Phe His Val Ala Arg
 20 25 30

Trp Phe Arg His Ile Glu Ala Leu Leu Gly Xaa Pro Cys Gly Lys Gly
 35 40 45

Gln Pro Cys Xaa Leu Pro Ser Xaa Gln Arg Pro Ala Cys Ala Ala Pro
 50 55 60

Val Val Pro Ser Cys Trp Asp Pro Xaa Cys Arg Leu His Leu Tyr Asn
 65 70 75 80

Ser Leu Thr Arg Asn Lys Glu Val Phe Ile Pro Gln Asp Gly Lys Lys
 85 90 95

Val Thr Trp Tyr Cys Cys Gly Pro Thr Val Tyr Asp Ala Ser His Met
 100 105 110

Gly His Ala Arg Ser Tyr Ile Ser Phe Asp Ile Leu Arg Arg Val Leu
 115 120 125

Lys Asp Tyr Phe Lys Phe Asp Val Phe Tyr Cys Met Asn Ile Thr Asp
 130 135 140

Ile Asp Asp Lys Ile Ile Lys Arg Ala Arg Gln Asn His Leu Phe Glu
 145 150 155 160

Gln Tyr Arg Glu Lys Arg Pro Glu Ala Ala Gln Leu Leu Glu Asp Val
 165 170 175

Gln Ala Ala Leu Lys Pro Phe Ser Val Lys Leu Asn Glu Thr Thr Asp
 180 185 190

Pro Asp Lys Lys Gln Met Leu Glu Arg Ile Gln His Ala Val Gln Leu
 195 200 205

Ala Thr Glu Pro Leu Glu Lys Ala Val Gln Ser Arg Leu Thr Gly Glu

210	215	220
Glu Val Asn Ser Cys Val Glu Val Leu Leu Glu Glu Ala Lys Asp Leu		
225	230	235 240
Leu Ser Asp Trp Leu Asp Ser Thr Leu Gly Cys Asp Val Thr Asp Asn		
	245	250 255
Ser Ile Phe Ser Lys Leu Pro Lys Phe Trp Glu Gly Asp Phe His Arg		
	260	265 270
Asp Met Glu Ala Leu Asn Val Leu Pro Pro Asp Val Leu Thr Arg Val		
	275	280 285
Ser Glu Tyr Val Pro Glu Ile Val Asn Phe Val Gln Lys Ile Val Asp		
	290	295 300
Asn Gly Tyr Gly Tyr Val Ser Asn Gly Ser Val Tyr Phe Asp Thr Ala		
	310	315 320
Lys Phe Ala Ser Ser Glu Lys His Ser Tyr Gly Lys Leu Val Pro Glu		
	325	330 335
Ala Val Gly Asp Gln Lys Ala Leu Gln Glu Gly Glu Gly Asp Leu Ser		
	340	345 350
Ile Ser Ala Asp Arg Leu Ser Glu Lys Arg Ser Pro Asn Asp Phe Ala		
	355	360 365
Leu Trp Lys Ala Ser Lys Pro Gly Glu Pro Ser Trp Pro Cys Pro Trp		
	370	375 380
Gly Lys Gly Arg Pro Gly Trp His Ile Glu Cys Ser Ala Met Ala Gly		
	385	390 395 400
Thr Leu Leu Gly Ala Ser Met Asp Ile His Gly Gly Gly Phe Asp Leu		
	405	410 415
Arg Phe Pro His His Asp Asn Glu Leu Ala Xaa Ser Glu Ala Tyr Phe		
	420	425 430
Glu Asn Asp Cys Trp Val Arg Tyr Phe Leu His Thr Gly His Leu Thr		
	435	440 445
Ile Ala Gly Cys Lys Met Ser Lys Ser Leu Lys Asn Phe Ile Thr Ile		
	450	455 460
Lys Asp Ala Leu Lys Lys His Ser Ala Arg Gln Leu Arg Leu Ala Phe		
	465	470 475 480
Leu Met His Ser Trp Lys Asp Thr Leu Asp Tyr Ser Ser Asn Thr Met		

858

485										490										495											
Glu	Ser	Ala	Leu	Gln	Tyr	Glu	Lys	Phe	Leu	Asn	Glu	Phe	Phe	Leu	Asn																
500										505										510											
Val	Lys	Asp	Ile	Leu	Arg	Ala	Pro	Val	Asp	Ile	Thr	Gly	Gln	Phe	Glu																
515										520										525											
Lys	Trp	Gly	Glu	Glu	Glu	Ala	Glu	Leu	Asn	Lys	Asn	Phe	Tyr	Asp	Lys																
530										535										540											
Lys	Thr	Ala	Ile	His	Lys	Ala	Leu	Cys	Asp	Asn	Val	Asp	Thr	Arg	Thr																
545										550										555											
Val	Met	Glu	Glu	Met	Arg	Ala	Leu	Val	Ser	Gln	Cys	Asn	Leu	Tyr	Met																
565										570										575											
Ala	Ala	Arg	Lys	Ala	Val	Arg	Lys	Arg	Pro	Asn	Gln	Ala	Leu	Leu	Glu																
580										585										590											
Asn	Ile	Ala	Leu	Tyr	Leu	Thr	His	Met	Leu	Lys	Ile	Phe	Gly	Ala	Val																
595										600										605											
Glu	Glu	Asp	Ser	Ser	Leu	Gly	Phe	Pro	Val	Gly	Gly	Pro	Gly	Thr	Ser																
610										615										620											
Leu	Ser	Leu	Glu	Ala	Thr	Val	Met	Pro	Tyr	Leu	Gln	Val	Leu																		
625										630										635											
<210> 908 <211> 248 <212> PRT <213> Homo sapiens																															
<400> 908 Ser His Pro Leu Arg Ser Arg Leu Pro Ser Ala Thr Gly Val Gly His 1 5 10 15 Ala Leu Ala Arg Ser Phe Cys Arg His Leu Gly Ser Ala Phe Pro Ala 20 25 30 Gln Asn Ala Arg Arg Ser Thr Glu Thr Val Pro Ala Thr Glu Gln Glu 35 40 45 Leu Pro Gln Pro Gln Ala Glu Thr Gly Ser Gly Thr Glu Ser Asp Ser 50 55 60 Asp Glu Ser Val Pro Glu Leu Glu Glu Gln Asp Ser Thr Gln Ala Thr 65 70 75 80																															

859

Thr Gln Gln Ala Gln Leu Ala Ala Ala Ala Glu Ile Asp Glu Glu Pro
85 90 95

Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala
100 105 110

Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr
115 120 125

Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val
130 135 140

Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys
145 150 155 160

Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe
165 170 175

Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr
180 185 190

Pro Thr Val Gln Glu Glu Ser Glu Glu Glu Glu Val Asp Glu Thr Gly
195 200 205

Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser
210 215 220

Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val
225 230 235 240

Asn Ala Ile Met Glu Leu Thr Met
245

<210> 909

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of th naturally occurring L-amino acids

860

<400> 909

Gln Gly Cys Cys Tyr Gly Ala Gly Arg Arg Val Ala Arg Leu Leu Ala
 1 5 10 15

Pro Leu Met Trp Arg Arg Ala Val Ser Ser Val Ala Gly Ser Ala Val
 20 25 30

Gly Ala Glu Pro Gly Leu Arg Leu Leu Ala Val Gln Arg Xaa Pro Val
 35 40 45

Glu Gln Arg Ser Ala Gly Leu Ala Arg Pro Gln Thr Leu Ser Ala Ala
 50 55 60

Cys Thr Ala Lys Pro Gly Leu Glu Glu Arg Ala Glu Gly Thr Val Asn
 65 70 75 80

Glu Gly Arg Pro Glu Ser Asp Ala Ala Asp His Thr Gly Pro Lys Phe
 85 90 95

Asp Ile Asp Met Met Val Ser Leu Leu Arg Gln Glu Asn Ala Arg Asp
 100 105 110

Ile Cys Val Ile Gln Val Pro Pro Glu Met Arg Tyr Thr Asp Tyr Phe
 115 120 125

Val Ile Val Ser Gly Thr Ser Thr Arg His Leu His Ala Met Ala Phe
 130 135 140

Tyr Val Val Lys Met Tyr Lys His Leu Lys Cys Lys Arg Xaa Pro Ser
 145 150 155 160

Cys

<210> 910

<211> 487

<212> PRT

<213> Homo sapiens

<400> 910

Lys Ala Ala Ser Gly Pro Ala Thr Ser Ile Thr Gly Val Thr Met Gly
 1 5 10 15

Ala Val Leu Gly Val Phe Ser Leu Ala Ser Trp Val Pro Cys Leu Cys
 20 25 30

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn
 35 40 45

861

Ser Thr Val Thr Arg Leu Ile Tyr Ala Phe Ile Leu Leu Leu Ser Thr
 50 55 60

Val Val Ser Tyr Ile Met Gln Arg Lys Glu Met Glu Thr Tyr Leu Lys
 65 70 75 80

Lys Ile Pro Gly Phe Cys Glu Gly Gly Phe Lys Ile His Glu Ala Asp
 85 90 95

Ile Asn Ala Asp Lys Asp Cys Asp Val Leu Val Gly Tyr Lys Ala Val
 100 105 110

Tyr Arg Ile Ser Phe Ala Met Ala Ile Phe Phe Phe Val Phe Ser Leu
 115 120 125

Leu Met Phe Lys Val Lys Thr Ser Lys Asp Leu Arg Ala Ala Val His
 130 135 140

Asn Gly Phe Trp Phe Phe Lys Ile Ala Ala Leu Ile Gly Ile Met Val
 145 150 155 160

Gly Ser Phe Tyr Ile Pro Gly Gly Tyr Phe Ser Ser Val Trp Phe Val
 165 170 175

Val Gly Met Ile Gly Ala Ala Leu Phe Ile Leu Ile Gln Leu Val Leu
 180 185 190

Leu Val Asp Phe Ala His Ser Trp Asn Glu Ser Trp Val Asn Arg Met
 195 200 205

Glu Glu Gly Asn Pro Arg Leu Trp Tyr Ala Ala Leu Leu Ser Phe Thr
 210 215 220

Ser Ala Phe Tyr Ile Leu Ser Ile Ile Cys Val Gly Leu Leu Tyr Thr
 225 230 235 240

Tyr Tyr Thr Lys Pro Asp Gly Cys Thr Glu Asn Lys Phe Phe Ile Ser
 245 250 255

Ile Asn Leu Ile Leu Cys Val Val Ala Ser Ile Ile Ser Ile His Pro
 260 265 270

Lys Ile Gln Glu His Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Leu
 275 280 285

Ile Thr Leu Tyr Thr Met Tyr Leu Thr Trp Ser Ala Met Ser Asn Glu
 290 295 300

Pro Asp Arg Ser Cys Asn Pro Asn Leu Met Ser Phe Ile Thr Arg Ile
 305 310 315 320

Leu Val Arg Cys Arg His Phe Ile Cys Pro His Ser Leu Arg Leu Ser
20 25 30

863

Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr
 35 40 45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile
 50 55 60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala
 65 70 75 80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg
 85 90 95

Gly Arg

<210> 912
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 912
 Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1 5 10 15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile
 20 25 30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met
 35 40 45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn
 50 55 60

Phe Pro Thr Glu Leu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala
 65 70 75 80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu
 85 90 95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys
 100 105 110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
 115 120 125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp
 130 135 140

864

Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
 145 150 155 160

Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
 165 170 175

Glu Ser Glu Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
 180 185 190

Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
 195 200 205

<210> 913

<211> 91

<212> PRT

<213> Homo sapiens

<400> 913

Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
 1 5 10 15

Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
 20 25 30

Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
 35 40 45

Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
 50 55 60

Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
 65 70 75 80

Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
 85 90

<210> 914

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

865

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914

Arg	Glu	Leu	Ser	Thr	Arg	Gln	Arg	Ser	Gln	Ala	Lys	Pro	Pro	Ala	Ser
1				5					10					15	

Met	Ala	Ser	Glu	Phe	Lys	Lys	Lys	Leu	Phe	Trp	Arg	Ala	Val	Val	Ala
			20					25					30		

Glu	Phe	Leu	Ala	Thr	Thr	Leu	Phe	Val	Phe	Ile	Ser	Ile	Gly	Ser	Ala
		35				40						45			

Leu	Gly	Phe	Lys	Tyr	Pro	Val	Gly	Asn	Asn	Gln	Thr	Ala	Val	Gln	Asp
	50					55					60				

Asn	Val	Lys	Val	Ser	Leu	Ala	Phe	Gly	Leu	Ser	Ile	Ala	Thr	Leu	Ala
65					70					75				80	

Gln	Ser	Val	Gly	His	Ile	Ser	Gly	Ala	His	Leu	Asn	Pro	Ala	Val	Thr
			85						90					95	

Leu	Gly	Leu	Leu	Leu	Ser	Cys	Gln	Ile	Ser	Ile	Phe	Arg	Ala	Leu	Met
		100					105						110		

Tyr	Ile	Ile	Ala	Gln	Cys	Val	Gly	Ala	Ile	Val	Ala	Thr	Ala	Ile	Leu
		115					120					125			

Ser	Gly	Ile	Xaa	Ser	Ser	Leu	Thr	Gly	Asn	Ser	Leu	Gly	Arg	Asn	Asp
	130					135					140				

Leu	Ala	Xaa	Gly	Val	Asn	Phe	Gly	Pro	Xaa	Pro	Gly	His	Arg	Asp	His
145					150					155				160	

Arg	Asp	Pro	Pro	Ala	Gly	Ala	Met	Arg	Ala	Gly	Tyr	Tyr	Arg	Pro	Glu
				165					170					175	

Ala Pro

<210> 915

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (355)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915

Val Cys Ala His Gly Gln Gly Leu Leu Arg Tyr Phe Tyr Ser Arg Arg
1 5 10 15

Ile Asp Ile Thr Leu Ser Ser Val Lys Cys Phe His Lys Leu Ala Ser
20 25 30

Ala Tyr Gly Ala Arg Gln Leu Gln Gly Tyr Cys Ala Ser Leu Phe Ala
35 40 45

Ile Leu Leu Pro Gln Asp Pro Ser Phe Gln Met Pro Leu Asp Leu Tyr
50 55 60

Ala Tyr Ala Val Ala Thr Gly Asp Ala Leu Leu Glu Lys Leu Cys Leu
65 70 75 80

Gln Phe Leu Ala Trp Asn Phe Glu Ala Leu Thr Gln Ala Glu Ala Trp
85 90 95

Pro Ser Val Pro Thr Asp Leu Leu Gln Leu Leu Leu Pro Arg Ser Asp
100 105 110

Leu Ala Val Pro Ser Glu Leu Ala Leu Leu Lys Ala Val Asp Thr Trp
115 120 125

Ser Trp Gly Glu Arg Ala Ser His Glu Glu Val Glu Gly Leu Val Glu
130 135 140

Lys Ile Arg Phe Pro Met Met Leu Pro Glu Glu Leu Phe Glu Leu Gln
145 150 155 160

Phe Asn Leu Ser Leu Tyr Trp Ser His Glu Ala Leu Phe Gln Lys Lys
165 170 175

Thr Leu Gln Ala Leu Glu Phe His Thr Val Pro Phe Gln Leu Leu Ala
180 185 190

Arg Tyr Lys Gly Leu Asn Leu Thr Glu Asp Thr Tyr Lys Pro Arg Ile
195 200 205

Tyr Thr Ser Pro Thr Trp Ser Ala Phe Val Thr Asp Ser Ser Trp Ser
210 215 220

Ala Arg Lys Ser Gln Leu Val Tyr Gln Ser Arg Arg Gly Pro Leu Val

867

225 230 235 240
 Lys Tyr Ser Ser Asp Tyr Phe Gln Ala Pro Ser Asp Tyr Arg Tyr Tyr
 245 250 255
 Pro Tyr Gln Ser Phe Gln Thr Pro Gln His Pro Ser Phe Leu Phe Gln
 260 265 270
 Asp Lys Arg Val Ser Trp Ser Leu Val Tyr Leu Pro Thr Ile Gln Ser
 275 280 285
 Cys Trp Asn Tyr Gly Phe Ser Cys Ser Ser Asp Glu Leu Pro Val Leu
 290 295 300
 Gly Leu Thr Lys Ser Gly Gly Ser Asp Arg Thr Ile Ala Tyr Glu Asn
 305 310 315 320
 Lys Ala Leu Met Leu Cys Glu Gly Leu Phe Val Ala Asp Val Thr Asp
 325 330 335
 Phe Glu Gly Trp Lys Ala Ala Ile Pro Ser Ala Leu Asp Thr Asn Ser
 340 345 350
 Ser Lys Xaa Thr Ser Ser Phe Pro Cys Pro Ala Gly Thr Ser Thr Ala
 355 360 365
 Ser Ala Arg Ser Ser Ala Pro Ser Thr
 370 375

 <210> 916
 <211> 100
 <212> PRT
 <213> Homo sapiens

 <400> 916
 Arg Val Gln Arg Asp Thr Cys Leu Pro Pro Met Ser Leu Ser Phe His
 1 5 10 15
 Leu Pro Ser Arg Arg Met Lys Asn Pro Ser Ile Val Gly Val Leu Cys
 20 25 30
 Thr Asp Ser Gln Gly Leu Asn Leu Gly Cys Arg Gly Thr Leu Ser Asp
 35 40 45
 Glu His Ala Gly Val Ile Ser Val Leu Ala Gln Gln Ala Ala Lys Leu
 50 55 60
 Thr Ser Asp Pro Thr Asp Ile Pro Val Val Cys Leu Glu Ser Asp Asn
 65 70 75 80

868

Gly Asn Ile Met Ile Gln Lys His Asp Gly Ile Thr Val Ala Val His
85 90 95

Lys Met Ala Ser
100

<210> 917
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 917
Leu Pro Pro Arg Ser Val Gly Gly Leu Gln Lys Met Arg Arg Lys Leu
1 5 10 15

Gly Leu Val Gln Val Glu Leu Glu Glu Asp Gly Ala Leu Val Ser Lys
20 25 30

869

Leu Leu Glu Thr Met His Leu Thr Gly Ala Asp Xaa Thr Asn Thr Phe
 35 40 45
 Tyr Leu Leu Ser Ser Phe Pro Val Glu Leu Glu Ser Pro Gly Leu Xaa
 50 55 60
 Glu Phe Leu Ala Arg Leu Met Glu Gln Cys Ala Ser Leu Glu Glu Leu
 65 70 75 80
 Arg Leu Ala Phe Arg Pro Xaa Met Asp Pro Arg Gln Leu Ser Met Met
 85 90 95
 Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met Gly Thr
 100 105 110
 Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln Ser Arg
 115 120 125
 Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln Gly His
 130 135 140
 Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Asp Lys Asp Leu
 145 150 155 160
 Glu Gly Ala Gly Asp Ala Ala Ala Trp Gln Ala Xaa Ala Arg Ala Arg
 165 170 175
 Asp Ala Arg Gln Gln Pro Glu Val Arg Ala Glu Glu Leu His Ser Arg
 180 185 190
 Arg Met Pro Phe Glu Val Ala Glu Arg Gly Asp Phe Ser Glu Val Arg
 195 200 205
 Arg Val Leu Lys Leu Phe Glu Thr Leu Tyr His Cys Glu Ala Gly Ala
 210 215 220
 Ala Thr Arg Arg Pro Arg Pro Arg Glu Ala Asp Gly Gly Gly Arg Xaa
 225 230 235 240
 Gly Xaa Phe Leu Thr
 245

<210> 918

<211> 44

<212> PRT

<213> Homo sapiens

<400> 918

Asn Ser Ala Arg Arg Ile Ser Leu Lys Glu Gly Glu Gly Lys Thr Asp

870

1 5 10 15
 Phe Leu Cys Gly Thr Lys Thr Lys Pro Ser Val Ser Leu Cys Glu Gln
 20 25 30
 Arg Cys Lys Lys Glu Glu Thr Gln Phe Thr His Gly
 35 40

<210> 919
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 919
 Phe Gly Thr Arg Val Thr Ser Gly Gly Ser Arg Asp Ala Val Pro Gly
 1 5 10 15
 Ala Glu Pro Pro Lys Met Ala Val Cys Ile Ala Val Ile Ala Lys Glu
 20 25 30
 Asn Tyr Pro Leu Tyr Ile Arg Ser Thr Pro Thr Glu Asn Glu Leu Lys
 35 40 45
 Phe His Tyr Met Val His Thr Ser Leu Asp Val Val Asp Glu Lys Ile
 50 55 60
 Ser Ala Met Gly Lys Ala Leu Val Asp Gln Arg Glu Leu Tyr Leu Gly
 65 70 75 80
 Leu Leu Tyr Pro Thr Glu Asp Tyr Lys Val Tyr Gly Tyr Val Thr Asn
 85 90 95
 Ser Lys Val Lys Phe Val Met Val Val Asp Ser Ser Asn Thr Ala Leu
 100 105 110
 Arg Asp Asn Glu Ile Arg Ser Met Phe Arg Lys Leu His Asn Ser Tyr
 115 120 125
 Thr Asp Val Met Cys Asn Pro Phe Tyr Asn Pro Gly Asp Arg Ile Gln
 130 135 140
 Ser Arg Ala Phe Asp Asn Met Val Thr Ser Met Met Ile Gln Val Cys
 145 150 155 160

871

<210> 920
<211> 40
<212> PRT
<213> Homo sapiens

<400> 920

Leu Ala Phe Phe Leu Thr Ser Glu Gly Glu Lys Lys Val Ala Thr Tyr
1 5 10 15
Met Phe Glu Lys Pro Leu Lys Ser Thr Gln Ser Lys Asp Phe Met Leu
20 25 30
Gln Phe Gly His Met Leu Arg Val
35 40

<210> 921
<211> 372
<212> PRT
<213> Homo sapiens

<400> 921

Leu Leu Gly Pro Ala Gly Gln Arg Ser His Ala Ala Pro Met Arg Pro
1 5 10 15
Leu Pro Pro Val Gly Asp Val Arg Leu Glu Leu Ser Pro Pro Pro Pro
20 25 30
Leu Leu Pro Val Pro Val Val Ser Gly Ser Pro Val Gly Ser Ser Gly
35 40 45
Arg Leu Met Ala Ser Ser Ser Ser Leu Val Pro Asp Arg Leu Arg Leu
50 55 60
Pro Leu Cys Phe Leu Gly Val Phe Val Cys Tyr Phe Tyr Tyr Gly Ile
65 70 75 80
Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
85 90 95
Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
100 105 110
Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
115 120 125
Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr
130 135 140
Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr

872

145 150 155 160
 Pro Thr Gln Val Leu Gly Lys Ser Cys Lys Pro Ile Pro Val Met Leu
 165 170 175
 Leu Gly Val Thr Leu Leu Lys Lys Lys Tyr Pro Leu Ala Lys Tyr Leu
 180 185 190
 Cys Val Leu Leu Ile Val Ala Gly Val Ala Leu Phe Met Tyr Lys Pro
 195 200 205
 Lys Lys Val Val Gly Ile Glu Glu His Thr Val Gly Tyr Gly Glu Leu
 210 215 220
 Leu Leu Leu Leu Ser Leu Thr Leu Asp Gly Leu Thr Gly Val Ser Gln
 225 230 235 240
 Asp His Met Arg Ala His Tyr Gln Thr Gly Ser Asn His Met Met Leu
 245 250 255
 Asn Ile Asn Leu Trp Ser Thr Leu Leu Leu Gly Met Gly Ile Leu Phe
 260 265 270
 Thr Gly Glu Leu Trp Glu Phe Leu Ser Phe Ala Glu Arg Tyr Pro Ala
 275 280 285
 Ile Ile Tyr Asn Ile Leu Leu Phe Gly Leu Thr Ser Ala Leu Gly Gln
 290 295 300
 Ser Phe Ile Phe Met Thr Val Val Tyr Phe Gly Pro Leu Thr Cys Ser
 305 310 315 320
 Ile Ile Thr Thr Thr Arg Lys Phe Phe Thr Ile Leu Ala Ser Val Ile
 325 330 335
 Leu Phe Ala Asn Pro Ile Ser Pro Met Gln Trp Val Gly Thr Val Leu
 340 345 350
 Val Phe Leu Gly Leu Gly Leu Asp Ala Lys Phe Gly Lys Gly Ala Lys
 355 360 365
 Lys Thr Ser His
 370

<210> 922

<211> 363

<212> PRT

<213> Homo sapiens

<400> 922

Pro Ala Arg Thr Met Phe Tyr Ala His Phe Val Leu Ser Lys Arg Gly
 1 5 10 15
 Pro Leu Ala Lys Ile Trp Leu Ala Ala His Trp Asp Lys Lys Leu Thr
 20 25 30
 Lys Ala His Val Phe Glu Cys Asn Leu Glu Ser Ser Val Glu Ser Ile
 35 40 45
 Ile Ser Pro Lys Val Lys Met Ala Leu Arg Thr Ser Gly His Leu Leu
 50 55 60
 Leu Gly Val Val Arg Ile Tyr His Arg Lys Ala Lys Tyr Leu Leu Ala
 65 70 75 80
 Asp Cys Asn Glu Ala Phe Ile Lys Ile Lys Met Ala Phe Arg Pro Gly
 85 90 95
 Val Val Asp Leu Pro Glu Glu Asn Arg Glu Ala Ala Tyr Asn Ala Ile
 100 105 110
 Thr Leu Pro Glu Glu Phe His Asp Phe Asp Gln Pro Leu Pro Asp Leu
 115 120 125
 Asp Asp Ile Asp Val Ala Gln Gln Phe Ser Leu Asn Gln Ser Arg Val
 130 135 140
 Glu Glu Ile Thr Met Arg Glu Glu Val Gly Asn Ile Ser Ile Leu Gln
 145 150 155 160
 Glu Asn Asp Phe Gly Asp Phe Gly Met Asp Asp Arg Glu Ile Met Arg
 165 170 175
 Glu Gly Ser Ala Phe Glu Asp Asp Asp Met Leu Val Ser Thr Thr Thr
 180 185 190
 Ser Asn Leu Leu Leu Glu Ser Glu Gln Ser Thr Ser Asn Leu Asn Glu
 195 200 205
 Lys Ile Asn His Leu Glu Tyr Glu Asp Gln Tyr Lys Asp Asp Asn Phe
 210 215 220
 Gly Glu Gly Asn Asp Gly Gly Ile Leu Asp Asp Lys Leu Ile Ser Asn
 225 230 235 240
 Asn Asp Gly Gly Ile Phe Asp Asp Pro Pro Ala Leu Ser Glu Ala Gly
 245 250 255
 Val Met Leu Pro Glu Gln Pro Ala His Asp Asp Met Asp Glu Asp Asp
 260 265 270

Asn Val Ser Met Gly Gly Pro Asp Ser Pro Asp Ser Val Asp Pro Val
 275 280 285
 Glu Pro Met Pro Thr Met Thr Asp Gln Thr Thr Leu Val Pro Asn Glu
 290 295 300
 Glu Glu Ala Phe Ala Leu Glu Pro Ile Asp Ile Thr Val Lys Glu Thr
 305 310 315 320
 Lys Ala Lys Arg Lys Arg Lys Leu Ile Val Asp Ser Val Lys Glu Leu
 325 330 335
 Asp Ser Lys Thr Ile Arg Ala Gln Leu Ser Asp Tyr Ser Asp Ile Val
 340 345 350
 Thr Thr Leu Asp Leu Ala Pro Pro Pro Arg Asn
 355 360

<210> 923
 <211> 296
 <212> PRT
 <213> Homo sapiens

<400> 923
 Val Ala Val Ile Trp Ala Tyr Trp Leu Gly Leu Lys Val Arg Arg Glu
 1 5 10 15
 Tyr Arg Lys Phe Phe Arg Ala Asn Ala Gly Lys Lys Ile Tyr Glu Phe
 20 25 30
 Thr Leu Gln Arg Ile Val Gln Lys Tyr Phe Leu Glu Met Lys Asn Lys
 35 40 45
 Met Pro Ser Leu Ser Pro Ile Asp Lys Asn Trp Pro Ser Arg Pro Tyr
 50 55 60
 Leu Phe Leu Asp Ser Thr His Lys Glu Leu Lys Arg Ile Phe His Leu
 65 70 75 80
 Trp Arg Cys Lys Lys Tyr Arg Asp Gln Phe Thr Asp Gln Gln Lys Leu
 85 90 95
 Ile Tyr Glu Glu Lys Leu Glu Ala Ser Glu Leu Phe Lys Asp Lys Lys
 100 105 110
 Ala Leu Tyr Pro Ser Ser Val Gly Gln Pro Phe Gln Gly Ala Tyr Leu
 115 120 125

875

Glu Ile Asn Lys Asn Pro Lys Tyr Lys Lys Leu Lys Asp Ala Ile Glu
130 135 140

Glu Lys Ile Ile Ile Ala Glu Val Val Asn Lys Ile Asn Arg Ala Asn
145 150 155 160

Gly Lys Ser Thr Ser Arg Ile Phe Leu Leu Thr Asn Asn Asn Leu Leu
165 170 175

Leu Ala Asp Gln Lys Ser Gly Gln Ile Lys Ser Glu Val Pro Leu Val
180 185 190

Asp Val Thr Lys Val Ser Met Ser Ser Gln Asn Asp Gly Phe Phe Ala
195 200 205

Val His Leu Lys Glu Gly Ser Glu Ala Ala Ser Lys Gly Asp Phe Leu
210 215 220

Phe Ser Ser Asp His Leu Ile Glu Met Ala Thr Lys Leu Tyr Arg Thr
225 230 235 240

Thr Leu Ser Gln Thr Lys Gln Lys Leu Asn Ile Glu Ile Ser Asp Glu
245 250 255

Phe Leu Val Gln Phe Arg Gln Asp Lys Val Cys Val Lys Phe Ile Gln
260 265 270

Gly Asn Gln Lys Asn Gly Ser Val Pro Thr Cys Lys Arg Lys Asn Asn
275 280 285

Arg Leu Leu Glu Val Ala Val Pro
290 295

<210> 924

<211> 91

<212> PRT

<213> Homo sapiens

<400> 924

His Phe Ser Ile Asn Tyr Asn Gln Lys Ser Asp Leu Leu Lys Glu Lys
1 5 10 15

Ser Asp Cys Lys Ser Phe Gln Gly Gln Thr Ala Thr Glu Pro Pro Thr
20 25 30

Pro Lys Gln Glu Thr Leu Val Lys Val Gln Glu Ala Arg Arg Phe Ser
35 40 45

Pro Thr Lys Val Gln Leu Gly Asn Asp Ala Glu Arg Met Thr Thr Thr

876

50 55 60
 Cys Asn Ser Arg Lys Met Leu Ala Ser Arg Val Arg Val Thr Ser Glu
 65 70 75 80
 Cys His Lys Ser Ser Leu Ser His Cys Leu Ile
 85 90

<210> 925
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 925
 Asn Ser Ala Arg Ala Gly Gly Arg Ala Val Leu Ser Gly Glu Pro Glu
 1 5 10 15
 Ala Asn Met Asp Gln Glu Thr Val Gly Asn Val Val Leu Leu Ala Ile
 20 25 30
 Val Thr Leu Ile Ser Val Val Gln Asn Gly Phe Phe Ala His Lys Val
 35 40 45
 Glu His Glu Ser Arg Thr Gln Asn Gly Arg Ser Phe Gln Arg Thr Gly
 50 55 60
 Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp
 65 70 75 80
 Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys
 85 90 95
 Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg
 100 105 110
 Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro
 115 120 125
 Gly Tyr Ile Phe Gly Glu Thr His His Thr Leu Pro Val Pro His Val
 130 135 140
 Arg Cys Trp His Ile Gln Leu Leu Pro His Leu Leu Phe Arg Lys
 145 150 155

<210> 926
 <211> 303
 <212> PRT

<213> Homo sapiens

<400> 926

Gly Ser Leu Ala Ser Pro Pro Ser Leu Gly Ser Met Gly Glu Lys Ser
 1 5 10 15
 Glu Asn Cys Gly Val Pro Glu Asp Leu Leu Asn Gly Leu Lys Val Thr
 20 25 30
 Asp Thr Gln Glu Ala Glu Cys Ala Gly Pro Pro Val Pro Asp Pro Lys
 35 40 45
 Asn Gln His Ser Gln Ser Lys Leu Leu Arg Asp Asp Glu Ala His Leu
 50 55 60
 Gln Glu Asp Gln Gly Glu Glu Glu Cys Phe His Asp Cys Ser Ala Ser
 65 70 75 80
 Phe Glu Glu Glu Pro Gly Ala Asp Lys Val Glu Asn Lys Ser Asn Glu
 85 90 95
 Asp Val Asn Ser Ser Glu Leu Asp Glu Glu Tyr Leu Ile Glu Leu Glu
 100 105 110
 Lys Asn Met Ser Asp Glu Glu Lys Gln Lys Arg Arg Glu Glu Ser Thr
 115 120 125
 Arg Leu Lys Glu Glu Gly Asn Glu Gln Phe Lys Lys Gly Asp Tyr Ile
 130 135 140
 Glu Ala Glu Ser Ser Tyr Ser Arg Ala Leu Glu Met Cys Pro Ser Cys
 145 150 155 160
 Phe Gln Lys Glu Arg Ser Ile Leu Phe Ser Asn Arg Ala Ala Ala Arg
 165 170 175
 Met Lys Gln Asp Lys Lys Glu Met Ala Ile Asn Asp Cys Ser Lys Ala
 180 185 190
 Ile Gln Leu Asn Pro Ser Tyr Ile Arg Ala Ile Leu Arg Arg Ala Glu
 195 200 205
 Leu Tyr Glu Lys Thr Asp Lys Leu Asp Glu Ala Leu Glu Asp Tyr Lys
 210 215 220
 Ser Ile Leu Glu Lys Asp Pro Ser Ile His Gln Ala Arg Glu Ala Cys
 225 230 235 240
 Met Arg Leu Pro Lys Gln Ile Glu Glu Arg Asn Glu Arg Leu Lys Glu
 245 250 255

878

Glu Met Leu Gly Lys Leu Lys Asp Leu Gly Asn Leu Val Leu Arg Pro
 260 265 270

Phe Gly Leu Ser Thr Glu Asn Phe Gln Ile Lys Gln Asp Ser Ser Thr
 275 280 285

Gly Ser Tyr Ser Ile Asn Phe Val Gln Asn Pro Asn Asn Asn Arg
 290 295 300

<210> 927

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 927

Xaa Gly Gly Cys Cys Ser Gly Pro Gly His Ser Lys Arg Arg Arg Gln
 1 5 10 15

Ala Pro Gly Val Gly Ala Val Gly Gly Gly Ser Pro Glu Arg Glu Glu
 20 25 30

Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala Ala
 35 40 45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Gln Glu His Trp
 50 55 60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met
 65 70 75 80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr
 85 90 95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
 100 105 110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe
 115 120 125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His
 130 135 140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val
 145 150 155 160

879

Tyr Gln Tyr Ser Thr Glu Pro Ile Asn Thr Phe His Gly Ile His Gln
165 170 175

Asn Glu Asp Glu Pro Ile Arg Val Ser Tyr His Arg Asn Ile His Tyr
180 185 190

Asn Ser Val Val Asn Pro Asn Lys Ala Thr Ile Gly Val Gly Leu Gly
195 200 205

Leu Pro Ser Phe Lys Pro Gly Phe Ala Glu Gln Ser Leu Met Lys Asn
210 215 220

Ala Ile Lys Thr Ser Glu Glu Ser Trp Ile Glu Gln Gln Met Leu Glu
225 230 235 240

Asp Lys Lys Arg Ala Thr Asp Trp Glu Ala Thr Asn Glu Ala Ile Glu
245 250 255

Glu Gln Val Ala Arg Glu Ser Tyr Leu Gln Trp Leu Arg Asp Gln Glu
260 265 270

Lys Gln Ala Arg Gln Val Arg Gly Pro Ser Gln Pro Arg Lys Ala Ser
275 280 285

Ala Thr Cys Ser Ser Ala Thr Ala Ala Ala Ser Ser Gly Leu Glu Glu
290 295 300

Trp Thr Ser Arg Ser Pro Arg Gln Glu Phe Gln Pro Arg His Leu Ser
305 310 315 320

Thr Leu Ser Cys Met Leu Asn Trp Ala
325

<210> 928

<211> 436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

880

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 928

Lys Arg Phe Leu Arg Asn Phe Lys Leu Leu Thr Lys Arg Glu Phe Trp
 1 5 10 15

Lys Glu Asn Gln Glu His Tyr His Ile Val Gln Lys Phe Leu Ile Leu
 20 25 30

Gly Asp Ile Asp Gly Leu Met Asp Glu Phe Ser Lys Trp Leu Ser Lys
 35 40 45

Ser Arg Asn Asn Leu Pro Gly His Leu Leu Arg Phe Met Thr His Leu
 50 55 60

Ile Leu Phe Phe Arg Thr Leu Gly Leu Gln Thr Lys Glu Glu Val Ser
 65 70 75 80

Ile Glu Val Leu Lys Thr Tyr Ile Gln Leu Leu Ile Arg Glu Lys His
 85 90 95

Thr Asn Leu Ile Ala Phe Tyr Thr Cys His Leu Pro Gln Asp Leu Ala
 100 105 110

Val Ala Gln Tyr Ala Leu Phe Leu Glu Ser Val Thr Glu Phe Glu Gln
 115 120 125

Arg His His Cys Leu Glu Leu Ala Lys Glu Ala Asp Leu Asp Val Ala
 130 135 140

Thr Ile Thr Lys Thr Val Val Glu Asn Ile Arg Lys Lys Asp Asn Gly
 145 150 155 160

Glu Phe Ser His His Asp Leu Ala Pro Ala Leu Asp Thr Gly Thr Thr
 165 170 175

Glu Glu Asp Arg Leu Lys Ile Asp Val Ile Asp Trp Leu Val Phe Asp
 180 185 190

Pro Ala Gln Arg Ala Glu Ala Leu Lys Gln Gly Asn Ala Ile Met Arg
 195 200 205

Lys Xaa Leu Ala Ser Lys Lys His Xaa Ala Ala Lys Glu Val Phe Val
 210 215 220

Lys Ile Pro Gln Asp Ser Ile Ala Glu Ile Tyr Asn Gln Cys Glu Glu
 225 230 235 240

881

Gln Gly Met Glu Ser Pro Leu Pro Ala Glu Asp Asp Asn Ala Ile Arg
245 250 255

Glu His Leu Cys Ile Xaa Ala Tyr Leu Glu Ala His Glu Thr Phe Asn
260 265 270

Glu Trp Phe Lys His Met Asn Ser Val Pro Gln Lys Pro Ala Leu Ile
275 280 285

Pro Gln Pro Thr Phe Thr Glu Lys Val Ala His Glu His Lys Glu Lys
290 295 300

Lys Tyr Glu Met Asp Phe Gly Ile Trp Lys Gly His Leu Asp Ala Leu
305 310 315 320

Thr Ala Asp Val Lys Glu Lys Met Tyr Asn Val Leu Leu Phe Val Asp
325 330 335

Gly Gly Trp Met Val Asp Val Arg Glu Asp Ala Lys Glu Asp His Glu
340 345 350

Arg Thr His Gln Met Val Leu Leu Arg Lys Leu Cys Leu Pro Met Leu
355 360 365

Cys Phe Leu Leu His Thr Ile Leu His Ser Thr Gly Gln Tyr Gln Glu
370 375 380

Cys Leu Gln Leu Ala Asp Met Val Ser Ser Glu Arg His Lys Leu Tyr
385 390 395 400

Leu Val Phe Ser Lys Glu Glu Leu Arg Lys Leu Leu Gln Lys Leu Arg
 . 405 . 410 415

Glu Ser Ser Leu Met Leu Leu Asp Gln Gly Leu Asp Pro Leu Gly Tyr
420 425 430

Glu Ile Gln Leu
435

<210> 929

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

883

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930

Leu	Met	Lys	Ile	Glu	Ala	Asn	Xaa	Asp	His	Met	Gly	Phe	His	Phe	Thr
1				5				10						15	
Thr	Gly	Xaa	Pro	Ala	Pro	Ser	Thr	Glu	Thr	Glu	Leu	Asp	Val	Leu	Leu
			20					25					30		
Pro	Thr	Ala	Thr	Ser	Leu	Pro	Ile	Pro	Arg	Lys	Ser	Ala	Thr	Val	Ile
		35					40					45			
Pro	Glu	Ile	Glu	Gly	Ile	Lys	Ala	Glu	Ala	Lys	Ala	Leu	Asp	Asp	Met
	50					55					60				
Phe	Glu	Ser	Ser	Thr	Leu	Ser	Asp	Gly	Gln	Ala	Ile	Ala	Asp	Gln	Ser
65					70				75					80	
Glu	Ile	Ile	Pro	Thr	Leu	Gly	Gln	Phe	Glu	Arg	Thr	Gln	Glu	Glu	Tyr
				85					90					95	
Glu	Asp	Lys	Lys	His	Ala	Gly	Pro	Ser	Phe	Gln	Pro	Glu	Phe	Ser	Ser
			100					105					110		
Gly	Ala	Glu	Glu	Ala	Leu	Val	Asp	His	Thr	Pro	Tyr	Leu	Ser	Ile	Ala
		115					120					125			
Thr	Thr	His	Leu	Met	Asp	Gln	Ser	Val	Thr	Glu	Val	Pro	Asp	Val	Met
	130					135					140				
Glu	Gly	Ser	Asn	Pro	Pro	Tyr	Tyr	Thr	Asp	Thr	Thr	Leu	Ala	Val	Ser
145					150					155				160	
Thr	Phe	Ala	Lys	Leu	Ser	Ser	Gln	Thr	Pro	Ser	Ser	Pro	Leu	Thr	Ile
			165						170					175	
Tyr	Ser	Gly	Ser	Glu	Ala	Ser	Gly	His	Thr	Glu	Ile	Pro	Gln	Pro	Ser
		180						185					190		
Ala	Leu	Pro	Gly	Ile	Asp	Val	Gly	Ser	Ser	Val	Met	Ser	Pro	Gln	Asp
		195					200					205			
Ser	Phe	Lys	Glu	Ile	His	Val	Asn	Ile	Glu	Ala	Thr	Phe	Lys	Pro	Ser
	210					215					220				
Ser	Glu	Glu	Tyr	Leu	His	Ile	Thr	Glu	Pro	Pro	Ser	Leu	Ser	Pro	Asp
225					230				235					240	

Thr Lys Leu Glu Pro Ser Glu Asp Asp Gly Lys Pro Glu Leu Leu Glu
 245 250 255
 Glu Met Glu Ala Ser Pro Thr Glu Leu Ile Ala Val Glu Gly Thr Glu
 260 265 270
 Ile Leu Gln Asp Phe Gln Asn Lys Thr Xaa Gly Gln Val Ser Gly Glu
 275 280 285
 Ala Ile Lys Met Phe Pro Thr Ile Lys Thr Pro Glu Ala Gly Thr Val
 290 295 300
 Ile Thr Thr Ala Asp Glu Ile Glu Leu Glu Gly Ala Thr Gln Trp Pro
 305 310 315 320
 His Ser Thr Ser Ala Ser Ala Thr Tyr Gly Val Glu Ala Gly Val Val
 325 330 335
 Pro Trp Leu Ser Pro Gln Thr Ser Glu Arg Pro Thr Leu Ser Ser Ser
 340 345 350
 Pro Glu Ile Asn Pro Glu Thr Gln Ala Ala Leu Ile Arg Gly Gln Asp
 355 360 365
 Ser Thr Ile Ala Ala Ser Glu Gln Gln Val Ala Ala Arg Ile Leu Asp
 370 375 380
 Ser Asn Asp Gln Ala Thr Val Asn Pro Val Glu Phe Asn Thr Glu Val
 385 390 395 400
 Ala Thr Pro Pro Phe Ser Leu Leu Glu Thr Ser Asn Glu Thr Asp Phe
 405 410 415
 Leu Ile Gly Ile Asn Glu Glu Ser Val Glu Gly Thr Ala Ile Tyr Leu
 420 425 430
 Pro Gly Pro Asp Arg Cys Lys Met Asn Pro Cys Leu Asn Gly Gly Thr
 435 440 445
 Cys Tyr Pro Thr Glu Thr Ser Tyr Val Cys Thr Cys Val Pro Gly Tyr
 450 455 460
 Ser Gly Asp Gln Cys Glu Leu Asp Phe Asp Glu Cys His Ser Asn Pro
 465 470 475 480
 Cys Arg Asn Gly Ala Thr Cys Val Asp Gly Phe Asn Thr Phe Arg Cys
 485 490 495
 Leu Cys Leu Pro Ser Tyr Val Gly Ala Leu Cys Glu Gln Asp Thr Glu
 500 505 510

885

Thr Cys Asp Tyr Gly Trp His Lys Phe Gln Gly Gln Cys Tyr Lys Tyr
 515 520 525
 Phe Ala His Arg Arg Thr Trp Asp Ala Ala Glu Arg Glu Cys Arg Leu
 530 535 540
 Gln Gly Ala His Leu Thr Ser Ile Leu Ser His Glu Glu Gln Met Phe
 545 550 555 560
 Val Asn Arg Val Gly His Asp Tyr Gln Trp Ile Gly Leu Asn Asp Lys
 565 570 575
 Met Phe Glu His Asp Phe Arg Trp Thr Asp Gly Ser Thr Leu Gln Tyr
 580 585 590
 Glu Asn Trp Arg Pro Asn Gln Pro Asp Ser Phe Phe Ser Ala Gly Glu
 595 600 605
 Asp Cys Val Val Ile Ile Trp His Glu Asn Gly Gln Trp Asn Asp Val
 610 615 620
 Pro Cys Asn Tyr His Leu Thr Tyr Thr Cys Lys Lys Gly Thr Val Ala
 625 630 635 640
 Cys Gly Gln Pro Pro Val Val Glu Asn Ala Lys Thr Phe Gly Lys Met
 645 650 655
 Lys Pro Arg Tyr Glu Ile Asn Ser Leu Ile Arg Tyr His Cys Lys Asp
 660 665 670
 Gly Phe Ile Gln Arg His Leu Pro Thr Ile Arg Cys Leu Gly Asn Gly
 675 680 685
 Arg Trp Ala Ile Pro Lys Ile Thr Cys Met Asn Pro Ser Ala Tyr Gln
 690 695 700
 Arg Thr Tyr Ser Met Lys Tyr Phe Lys Asn Ser Ser Ser Ala Lys Asp
 705 710 715 720
 Asn Ser Ile Asn Thr Ser Lys His Asp His Arg Trp Ser Arg Arg Trp
 725 730 735
 Gln Glu Ser Arg Arg
 740

<210> 931

<211> 209

<212> PRT

<213> Homo sapiens

886

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 931

Gly Lys Ala Gly Asp Gln Leu Val Pro Asp Asn Leu Lys Glu Thr Asp
 1 5 10 15

Lys Glu Lys Gly Asn Val Val Leu Lys Gly Glu Xaa Ser Ala Arg Met
 20 25 30

Lys Ile Pro Ser Asn Met Trp Val Glu Ala Trp Glu Thr Ala Lys Pro
 35 40 45

Ile Pro Ala Arg Arg Gln Arg Arg Leu Phe Asp Asp Thr Arg Glu Ala
 50 55 60

Glu Lys Val Leu His Tyr Leu Ala Ile Gln Lys Pro Ala Asp Leu Ala
 65 70 75 80

Arg His Leu Leu Pro Cys Val Ile His Ala Ala Val Leu Lys Val Lys
 85 90 95

Glu Glu Glu Ser Leu Glu Asn Ile Ser Ser Val Lys Lys Ile Ile Lys
 100 105 110

Gln Ile Ile Ser His Ser Ser Lys Val Leu His Phe Pro Asn Pro Glu
 115 120 125

Asp Lys Lys Leu Glu Glu Ile Ile His Gln Ile Thr Asn Val Glu Ala
 130 135 140

Leu Ile Ala Arg Ala Arg Ser Leu Lys Ala Lys Phe Gly Thr Glu Lys
 145 150 155 160

Cys Glu Gln Glu Glu Lys Glu Asp Leu Glu Arg Phe Val Ser Cys
 165 170 175

Leu Leu Glu Gln Pro Glu Val Leu Val Thr Gly Ala Gly Arg Gly His
 180 185 190

Ala Gly Arg Ile Ile His Lys Leu Phe Val Asn Ala Gln Arg Cys Gln
 195 200 205

Leu

887

<210> 932

<211> 57

<212> PRT

<213> Homo sapiens

<400> 932

Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
 1 5 10 15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
 20 25 30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
 35 40 45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
 50 55

<210> 933

<211> 125

<212> PRT

<213> Homo sapiens

<400> 933

Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln
 1 5 10 15

Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu
 20 25 30

Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln
 35 40 45

Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
 50 55 60

Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
 65 70 75 80

Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
 85 90 95

Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile
 100 105 110

Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
 115 120 125

888

<210> 934

<211> 306

<212> PRT

<213> Homo sapiens

<400> 934

Pro Thr Phe Ser Arg Ala Val Ala Thr Met Phe Ser Arg Ala Gly Val
 1 5 10 15

Ala Gly Leu Ser Ala Trp Thr Leu Gln Pro Gln Trp Ile Gln Val Arg
 20 25 30

Asn Met Ala Thr Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile Lys
 35 40 45

Asn Ile Gln Lys Ile Thr Lys Ser Met Lys Met Val Ala Ala Ala Lys
 50 55 60

Tyr Ala Arg Ala Glu Arg Glu Leu Lys Pro Ala Arg Ile Tyr Gly Leu
 65 70 75 80

Gly Ser Leu Ala Leu Tyr Glu Lys Ala Asp Ile Lys Gly Pro Glu Asp
 85 90 95

Lys Lys Lys His Leu Leu Ile Gly Val Ser Ser Asp Arg Gly Leu Cys
 100 105 110

Gly Ala Ile His Ser Ser Ile Ala Lys Gln Met Lys Ser Glu Val Ala
 115 120 125

Thr Leu Thr Ala Ala Gly Lys Glu Val Met Leu Val Gly Ile Gly Asp
 130 135 140

Lys Ile Arg Gly Ile Leu Tyr Arg Thr His Ser Asp Gln Phe Leu Val
 145 150 155 160

Ala Phe Lys Glu Val Gly Arg Lys Pro Pro Thr Phe Gly Asp Ala Ser
 165 170 175

Val Ile Ala Leu Glu Leu Leu Asn Ser Gly Tyr Glu Phe Asp Glu Gly
 180 185 190

Ser Ile Ile Phe Asn Lys Phe Arg Ser Val Ile Ser Tyr Lys Thr Glu
 195 200 205

Glu Lys Pro Ile Phe Ser Leu Asn Thr Val Ala Ser Ala Asp Ser Met
 210 215 220

Ser Ile Tyr Asp Asp Ile Asp Ala Asp Val Leu Gln Asn Tyr Gln Glu
 225 230 235 240

Tyr Asn Leu Ala Asn Ile Ile Tyr Tyr Ser Leu Lys Glu Ser Thr Thr
245 250 255

Ser Glu Gln Ser Ala Arg Met Thr Ala Met Asp Asn Ala Ser Lys Asn
260 265 270

Ala Ser Glu Met Ile Asp Lys Leu Thr Leu Thr Phe Asn Arg Thr Arg
275 280 285

Gln Ala Val Ile Thr Lys Glu Leu Ile Glu Ile Ile Ser Gly Ala Ala
290 295 300

Ala Leu
305

```
<210> 935
<211> 135
<212> PRT
<213> Homo sapiens
```

<400> 935
Gly Ala Leu Cys Ala Ala Ser Val Pro Arg Cys Val Trp Ser Ser Ala
1 5 10 15

Gly Val Val Ala Leu Phe Glu Glu His Cys Ala Pro Leu Val Trp Val
20 25 30

Tyr Thr Tyr Glu Cys Cys His Tyr Met Cys Ser Ala Leu Leu Ser Leu
35 40 45

Ser Cys Pro Cys Pro Ala Pro Ser Glu Arg Ala Ala Gly Leu Cys Cys
50 55 60

Arg Leu Val Val Pro Cys His Lys Gly Met Pro Arg Leu Thr Asp Leu
65 70 75 80

Ser Val Lys Thr Lys Asp Val Trp Glu Ile Pro Arg Glu Ser Leu Gln
85 90 95

Leu Ile Lys Arg Leu Gly Asn Gly Gln Phe Gly Glu Val Trp Met Gly
100 105 110

Met Leu Arg Leu Asn Tyr Ser Leu Ile Ser Phe Pro Val Trp Lys Ile
115 120 125

Pro Asn Thr Lys Asp Gly Arg
130 135

890

<210> 936

<211> 284

<212> PRT

<213> Homo sapiens

<400> 936

Leu Ser Gly Thr Thr Tyr Ala Arg Ala Cys Arg Ser Gln Cys Ala Ser
 1 5 10 15

Ala Ala Gly Gly Cys Thr Gly Gly Ala Gly Gly Gly Gly Gly Gly Gly
 20 25 30

Gly Gly Trp Gly Gly Ala Gly Gly Lys Cys Cys Asp Ala Val Pro Gly
 35 40 45

Arg Gly Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser Gly Lys Ala
 50 55 60

Ala Met Ala Ile Phe Ser Val Tyr Val Val Asn Lys Ala Gly Gly Leu
 65 70 75 80

Ile Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala Glu Ala Glu Lys Thr
 85 90 95

Phe Ser Tyr Pro Leu Asp Leu Leu Leu Lys Leu His Asp Glu Arg Val
 100 105 110

Leu Val Ala Phe Gly Gln Arg Asp Gly Ile Arg Val Gly His Ala Val
 115 120 125

Leu Ala Ile Asn Gly Met Asp Val Asn Gly Arg Tyr Thr Ala Asp Gly
 130 135 140

Lys Glu Val Leu Glu Tyr Leu Gly Asn Pro Ala Asn Tyr Pro Val Ser
 145 150 155 160

Ile Arg Phe Gly Arg Pro Arg Leu Thr Ser Asn Glu Lys Leu Met Leu
 165 170 175

Ala Ser Met Phe His Ser Leu Phe Ala Ile Gly Ser Gln Leu Ser Pro
 180 185 190

Glu Gln Gly Ser Ser Gly Ile Glu Met Leu Glu Thr Asp Thr Phe Lys
 195 200 205

Leu His Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val Leu Ala
 210 215 220

Asp Pro Arg Gln Ala Gly Ile Asp Ser Leu Leu Arg Lys Ile Tyr Glu

891

225	230							235					240			
Ile Tyr Ser Asp Phe Ala Leu Lys Asn Pro Phe Tyr Ser Leu Glu Met																
	245							250					255			
Pro Ile Arg Cys Glu Leu Phe Asp Gln Asn Leu Lys Leu Ala Leu Glu																
	260							265					270			
Val Ala Glu Lys Ala Gly Thr Phe Gly Pro Gly Ser																
	275							280								

```
<210> 937
<211> 338
<212> PRT
<213> Homo sapiens
```

```

<400> 937
Pro Val Ser Pro Leu His Arg Glu Glu Gly Asp Lys Trp Gly Glu Val
  1             5             10             15
Trp Cys Gln Met Gly Trp Arg Arg Lys Arg Val Pro Gln Arg Gly Arg
      20             25             30
Lys Ala Pro Pro Pro Gln Leu His Gly Asn Ile Asn Asn Leu Tyr Phe
      35             40             45
Pro Ile Arg Trp Arg Asp Arg Leu His Trp Asp Ser Pro Asn Pro Ala
      50             55             60
Ala Glu Cys Gln Arg Pro Arg Ser Thr Leu Val Ser Arg Lys Pro Gly
      65             70             75             80
Pro Gly Arg Ile Thr Trp Asp Glu Leu Ala Ala Ser Gly Leu Pro Ser
      85             90             95
Cys Asp Ala Ala Val Asn Leu Ala Gly Glu Asn Ile Leu Asn Pro Leu
      100             105             110
Arg Arg Trp Asn Glu Thr Phe Gln Lys Glu Val Leu Gly Ser Arg Leu
      115             120             125
Glu Thr Thr Gln Leu Leu Ala Lys Ala Ile Thr Lys Ala Pro Gln Pro
      130             135             140
Pro Lys Ala Trp Val Leu Val Thr Gly Val Ala Tyr Tyr Gln Pro Ser
      145             150             155             160
Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly Asp Phe Asp Phe
      165             170             175

```

892

Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala Arg Leu Pro Gly
 180 185 190
 Asp Ser Thr Arg Gln Val Val Val Arg Ser Gly Val Val Leu Gly Arg
 195 200 205
 Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe Arg Leu Gly Leu
 210 215 220
 Gly Gly Pro Ile Gly Ser Gly His Gln Phe Phe Pro Trp Ile His Ile
 225 230 235 240
 Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu Ala Asn His Val
 245 250 255
 His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala Thr Asn Ala Glu
 260 265 270
 Phe Ala Gln Thr Phe Gly Ala Ala Leu Gly Arg Arg Ala Phe Ile Pro
 275 280 285
 Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg Gln Arg Ala Ile
 290 295 300
 Met Leu Leu Glu Gly Gln Lys Val Ile Pro Arg Arg Thr Leu Ala Thr
 305 310 315 320
 Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala Leu Lys Glu Ile
 325 330 335
 Val Ala

<210> 938

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 938

Cys	Gln	Glu	Trp	Val	Pro	Asp	Arg	Glu	Ser	Tyr	Val	Ser	His	Met	Lys
1				5				10						15	

Lys	Ser	His	Gly	Arg	Thr	Leu	Lys	Arg	Tyr	Pro	Cys	Arg	Gln	Xaa	Glu
			20					25					30		

Gln	Ser	Phe	His	Thr	Pro	Asn	Ser	Leu	Arg	Lys	His	Ile	Arg	Asn	Asn
		35						40				45			

His	Asp	Thr	Val	Lys	Lys	Phe	Tyr	Thr	Cys	Gly	Tyr	Cys	Thr	Glu	Asp
		50				55					60				

Ser	Pro	Ser	Phe	Pro	Arg	Pro	Ser	Leu	Leu	Glu	Ser	His	Ile	Ser	Leu
	65				70					75					80

Met	His	Gly	Ile	Arg	Asn	Pro	Asp	Leu	Ser	Gln	Thr	Ser	Lys	Val	Lys
				85				90						95	

Pro	Pro	Gly	Gly	His	Ser	Pr	Gln	Val	Asn	His	Leu	Lys	Arg	Pro	Val
			100					105						110	